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## ABSTRACT

One of a series of three resource guides concerned with communication, control, and computer access for the disabled or the elderly, the book focuses on hardware and software. The guide's 13 chapters each cover products with the same primary function. Cross reference indexes allow access to listings of products by function, input/output feature, and computer model. Switches are listed separately by input/output features. Typically provided for each product are usually an illustration, the product name, vendor, size, weight, power source, connector type, cost, and a description. Part I, "Computer Adaptations," presents the following types of items: modifications for standard keyboards; alternate inputs usable with all software; input devices usable with only some software; input adapters for computers; alternate display systems usable with all software; Braille printers and tactile display components; speech synthesizers; and other software and hardware adaptations. Part II, "Application Software for Special Ed and Rehab," includes software for administration and management; assessment; education, training, and therapy; recreation; and personal tools or aids. Appendixes include a list of additional sources of information, a glossary, addresses of manufacturers listed with their products, and an alphabetical listing of all products in the 3-book series. (DB)

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# COMMUNICATION, CONTROL, AND COMPUTER ACCESS FOR DISABLED & ELDERLY INDIVIDUALS

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This is **ResourceBook® 3** of a three-book set inaugurating the Rehab/Education Technology ResourceBook® Series. Although most readers will probably use the full series, each book is written so that it can be used independently. All the cross-reference indexes include all of the products from all of the books.

Other books in the set are:

**ResourceBook® 1:** Communication Aids

**ResourceBook® 2:** Switches and Environmental Controls

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Rehab/Education Technology ResourceBook Series:

# **Communication, Control, and Computer Access for Disabled and Elderly Individuals**

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## **ResourceBook 3: Software and Hardware**

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*Sara Brandenburg  
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# **Preface: How to Use the Books**

## **Overview**

With the rapid growth of technology applied to the areas of augmentative communication, special education, and rehabilitation, the task of identifying the appropriate technological tools (aids) can be overwhelming. We wrote the Rehab/Education Technology Resourcebook Series to allow you to quickly identify promising tools so you can focus more energy on applying them successfully. In addition, we believe that looking through these books can help you to understand the huge variety of currently available tools, the kinds of needs they attempt to address, and the capabilities of the people who can make use of them.

## **The Books Include Special Devices and Software**

The Rehab/Education Technology Resourcebooks include products designed specifically for elderly people and people with disabilities. Book 1 covers communication aids, Book 2 covers switches and environmental controls, and Book 3 covers computer software and hardware. The books also include products that were originally designed for use by ordinary people but are marketed specially for elderly or disabled people.

Products marketed for the general public which could be useful to people with disabilities or elderly people could not be included in the Resourcebooks due to the volume of material. For example, general educational software and standard word processing programs can be useful to people with disabilities but there are too many to include. Appendix A, Additional Resources, can guide you to sources of further information on these types of products.

## **Each Chapter Covers Products With the Same Primary Function**

Each chapter contains all the products with the same primary function arranged alphabetically. The chapter title identifies the primary function of the products that appear in it and the first page of each chapter has a brief explanation of the meaning of the title and the scope of the chapter.

## **Special Indexes Help You Find Products That Meet Special Needs**

We have included special Cross Reference Indexes to help you search for available products to meet specific needs. The Cross-Reference Indexes located near the back of the books allow you to find products by function, by input feature, by output feature, and by computer. A separate Cross Reference Index for switches allows you to search for switches by input/output feature.

ALL the Cross Reference Indexes include ALL the products from ALL three books. The codes used in each index, and their meaning, are listed on each index title page. Cross reference codes, italicized and enclosed in parentheses, follow each entry. The book-page numbers for the product description come after the cross reference codes. For example, a product that is on page 125 of book 3 will have the notation 3-125.

### How to Find All the Products That Have a Certain Function

Most products have more than one function, so you can't find all the products for a particular function by looking in the chapter on that function. To find all the products that can provide a certain function look in Cross Reference Index 1, Products Listed by Function. The additional function codes assigned to a product follow the product name. They are italicized and enclosed in parentheses.

For Example: If you are looking for a communication aid that can also be used as an alternate input to computers, first find the code list at the beginning of the Cross Reference Index 1, Products Listed by Function. Note that "Electronic Communication and Writing Aid" is code EA and that "Alternate Input Adaptable for Use With All Software" is code TW. Now find the Electronic Communication and Writing Aid section by looking for the title alphabetically. Then going down the list of products under the EA title, note those products that have the TW function code in the italicized list of codes next to each product. The codes are contained in parentheses and look like (*ODS,PW,TW,WP*). Finally, use the book-page number (e.g. 3-90) following the codes to find the corresponding product description.

For curricular skills the codes make a distinction between Early Skills (*ES*) that are prereading, Later Skills (*LS*) that involve reading or later reasoning skills, Calculation skills (*CN*) for math, Activities of Daily Living (*AD*), and Vocational skills (*VO*). Therapies have been distinguished in the codes by the broad categories Speech Therapy (*ST*), Language Therapy (*LT*), and Cognitive Rehabilitation (*CR*). If you're not sure of the specific category use the general category "Education, Training, and Therapy Software" (*ET*) to find all products in the (*ES,LS,CN,AD,VO,ST,LT,CR*) categories.

### How to Find All the Products That Have a Desired Input/Output Feature

The easiest way to find all the products with a given input or output feature is to use Cross Reference Index 2, Products Listed By Input/Output Feature and Cross Reference Index 3, Switches Listed By Input/Output Feature. Just look up the feature, all the products in any of the three books with that feature will be listed.

For Example: If you are looking for voice output software to teach keyboarding skills to a blind student, you are looking for the function "Keyboard Training" and the feature "Speech Output". First, go to the code list at the beginning of Cross Reference Index 2, Products Listed By Input/Output Feature. Find the Function code for "Keyboard Training Program" which is KB. Then in the index look up "Output/Display: Speech Output (*ODS*)" alphabetically by title. Under the title in the list of all speech output products look for those with the (*KB*) function code indicating that they provide training in the use of the keyboard. These are the products with both the function "Keyboard Training" and the feature "Speech Output". Noting the associated book-page numbers allows you to look up the product descriptions for more information.

### How to Find All the Products for a Given Computer

All product descriptions include computer model. If you want to use computer model as a primary search, however, you can use Cross Reference Index 4, Products Listed by Computer.

For Example: To locate all the products for an IBM computer used for cognitive retraining, you go to Cross Reference Index 4, Products Listed by Computer and look up IBM computer. Then in that list of products you note entries with the CR code.

"Compatibles" are not listed unless a product is designed specifically for that computer. In all cases, contact the manufacturer to determine whether a given product will work with a "compatible" computer.

### **How to Find a Manufacturer's Address**

The manufacturers with their addresses and phone numbers are listed in Appendix C, along with a list of their products that are included in the three books. Since products can be handled by several distributors we have attempted to identify an original manufacturer whenever possible. Contact the manufacturer for the nearest dealer.

### **How to Look Up a Product by Name**

If you know the name of a product and want to find out the page of its product description use Appendix D, Alphabetical Listing of All Products. It contains an alphabetical listing of all products in all three books.

### **Products Are Not Indexed by Disability**

Products are not indexed by disability since we believe that this is not a useful approach. While some products are clearly for the visually impaired, nonvocal, physically impaired, etc., many products could be used by people with any disability, just as standard software can be used by people with disabilities using appropriate access tools. For these reasons we believe that emphasis should move away from etiology label to a concentration on the functions that are required, and the specific input and output features necessary to make that function accessible to the person.

### **A Caution: We Make No Endorsements**

The information contained in product entries is not evaluative, and inclusion in these books does not imply recommendation or endorsement. We have made every effort to make the entries consistent and informative but because we are not able to use every product ourselves, the description includes only what the product is designed to do and not how effectively the product does it. The product descriptions have been written based upon information provided by the manufacturers. The entries, including prices, were confirmed with them and are accurate as of September 1986.

The books are intended as a starting point. Your next step after finding a promising product description will be to contact the manufacturer directly. Ask them for detailed information regarding system prices, compatibility, possible trial periods, training, support and repair packages, etc.

### **These Books Can Help You Find the Tools. It Is Up To You To Make Them Useful.**

Since the Trace Center did its first resource list and guides in 1979, the increase in both the number and the quality of aids for people with disabilities has been incredible. The point must be made, however, that while these aids can open many doors, they are only tools—not solutions. Now that there are tools to work with, it is the knowledgeable, creative application of these tools and the ongoing support for the people using them that will truly make the difference in improving the lives of elderly people and people with disabilities.

## Update Form

A "fourth" Resourcebook will be published in Fall 1987, the UPDATE of all three books in the Resourcebook Series. This UPDATE will include new entries, information on discontinued entries, and a complete, newly updated set of cross-reference indexes with book-page locations for all four books. Application Tips submitted by people with disabilities, family members, and the professionals working with them will also be included.

If you have information on new products (software, hardware, devices, non-electronic, etc.) or products we have missed, please let us know. Copy this page and mail to:

Trace R&D Center  
Information Project  
S-151 Waisman Center  
University of Wisconsin-Madison  
1500 Highland Avenue  
Madison, WI 53705

Or give us a call at 608/263-5403.

NAME OF PRODUCT: \_\_\_\_\_

MANUFACTURER: \_\_\_\_\_

COST: \_\_\_\_\_

FUNCTION(S): \_\_\_\_\_

ALL LEADS:

INPUT TYPE: \_\_\_\_\_

INPUT METHOD: \_\_\_\_\_

INPUT DISPLAY SYMBOL SYSTEM: \_\_\_\_\_

IF SWITCH, OR ALLOWS SWITCH INPUT, NUMBER OF SWITCHES: \_\_\_\_\_

ANY INPUT ACCELERATION OR EXPANSION TECHNIQUE? \_\_\_\_\_ YES \_\_\_\_\_ NO

IF SO, DESCRIBE: \_\_\_\_\_

OUTPUTS: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

IF APPLICABLE:

COMPUTER(S): \_\_\_\_\_

DOS: \_\_\_\_\_ MEDIUM: \_\_\_\_\_

MANUAL FORM, LENGTH: \_\_\_\_\_

SIZE: \_\_\_\_\_ WEIGHT: \_\_\_\_\_

POWER SOURCE: \_\_\_\_\_ ACTIVATION PRESSURE: \_\_\_\_\_

CONNECTOR TYPE: \_\_\_\_\_

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<b>Chapter 1: Modifications for Standard Keyboards</b>	<b>1</b>
Keyguards, keylatches, foot operated shift controls, and software adaptations for rearranging or modifying the operation of the standard computer keyboard.	
<b>Chapter 2: Alternate Inputs Usable with All Software</b>	<b>21</b>
Alternate input systems which are only designed to work with all of the standard software which is written for the computer. This includes systems which work directly with all software, as well as interfaces which require some adaptor in order to work with all software. Standard keyboard modifications are in the previous chapter.	
<b>Chapter 3: Input Devices Usable with Only Some Software</b>	<b>59</b>
Input devices for computers which only work with specific software programs, and cannot be used for complete access to the computer.	
<b>Chapter 4: Input Adapters for Computers</b>	<b>67</b>
Special adapters that go between switches, controls, keyboards, etc., and the standard computer in order to allow them to work together.	
<b>Chapter 5: Alternate Display Systems Usable with All Software</b>	<b>79</b>
Large print, voice, Braille, Morse code, or other output systems which are designed to be used by individuals who cannot see or use the standard computer display. Systems in this chapter are usable with all software written for the computer.	
<b>Chapter 6: Braille Printers and Tactile Display Components</b>	<b>103</b>
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Hardware and software based voice synthesizers that are designed to be used by other application programs.	
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# Chapter 1

## Modifications for Standard Keyboards

*This chapter contains modifications to the computer's standard keyboard. This includes both hardware (keyguards, key latches, foot operated shift keys, etc.) and software adaptations ("sticky key", keyboard repeat rate, keyboard rearranging, and similar software modifications to the keyboard routines of the computer).*

*Related functions found in the cross reference indexes are Keyguard (KG) and Other Adaptation (OA). A related input feature is Abbreviation Expansion (IEA), which includes products which use macros.*

*Appendix A includes many information summaries of interest to disabled computer users.*

## Chapter 1: Modifications for Standard Keyboards

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SuperKey 3-19  
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The following products from other chapters can also be used as Modifications for Standard Keyboards:

Adaptive Firmware Card 3-24  
Cacti Word Processor 3-311  
CHPI Apple Tool Kit 3-312  
Keyworks 3-37  
Prompt-Writer 3-331  
Quad-Independence Typewriter-Printer System 1-73  
QuickWord 3-45  
Special Inputs Disk 3-47



**Product Name:** CTRL & ALT Key Adaptive Program

**Vendor:** Murray, Fr. Bradley (for information)

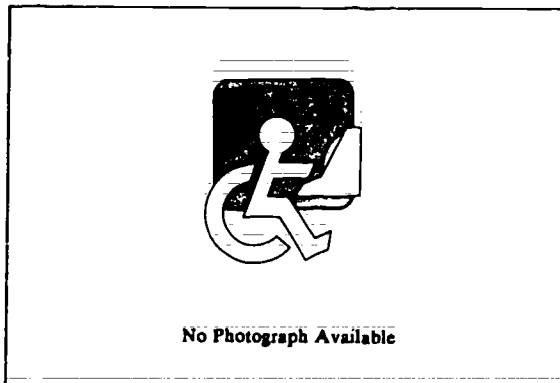
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$10.00

CTRL and ALT Key Adaptive Program is a program that allows one-finger operation of keys which normally have to be pressed at the same time as another key. The program is designed to reside in memory and be in effect while the user is running standard software applications programs. Typing CONTROL, SHIFT, or ALT will automatically affect the next keystroke (i.e., striking CONTROL and then "a" triggers CONTROL-A). Successive keystrokes are not affected. CONTROL-ALT-DELETE combination (system re-boot) can also be executed sequentially.

Certain programs have been tested and found compatible with this program, while others have been found incompatible. Contact the manufacturer for details. The program is not copy-protected, and the cost covers updates.



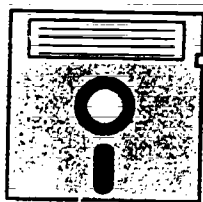
**Product Name:** Dvorak Keyboard Converter

**Vendor:** Typewriting Institute for the Handicapped

**Computer:** Apple IIe, IBM PC family

**Cost:** \$650.00

Dvorak Keyboard Converters are alternate computer keyboards that function exactly like the standard keyboard but have the keys laid out in the Dvorak configuration, a system that reduces strain and increases efficiency for a person typing with only one hand. The Dvorak layout distributes the typing load more evenly for each finger on the one-hand typist's hand than does the standard layout. Right handed and left handed models are available.



**Product Name:** Dvorak Keyboard Modification Programs

**Vendor:** Dvorak International

**Computer:** Apple II family, Apple Macintosh, Commodore 64, IBM PC family

**Manual Form:** Printed

**Cost:** Contact manufacturer

Dvorak International carries many programs which allow the user to remap the computer keyboard to the Dvorak configuration. Programs for the IBM-PC family of computers include PC/Dvorak (\$25.00). Programs for the Apple II family of computers include Switch to Dvorak for the Apple IIe (\$25.00) and Magic Keyboard, firmware for the Apple II+ (\$49.95). A program called Macqwerty reconfigures the Macintosh keyboard to the Dvorak custom layout. Available for the Commodore 64 is DV Typer (\$34.95). A software typing tutorial (Dvorak QED Typing Made Easy) is available for the IBM (\$59.95). Keyboard overlays are available as well (\$26.95). One-handed Dvorak layouts are also available; contact Dvorak International.

Dvorak International also provides listings of other programs sold directly by the vendors that will change the keyboard layout. They will also provide information on software typing training for Dvorak typewriters, keyboard overlays, and custom keyboards. Contact Dvorak International for more information.

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**Product Name:** Filch

**Vendor:** Kinetic Designs, Inc.

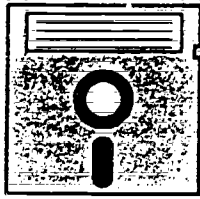
**Computer:** IBM PC family

**Manual Form:** Electronic

**Cost:** \$50.00

Filch is a program that alters some of the ways that keys function on an IBM-PC. First, Filch overrides the auto-repeat function of all keys on the keyboard. This override function automatically ceases when a key is pressed more than twice in succession, in order to accommodate circumstances in which the user desires the auto-repeat to operate (such as cursor movement). Second, Filch makes the CONTROL, ALT, and right SHIFT keys into toggles, permitting one-finger operation. Filch also assigns audio feedback of differing tones to each of these three keys.

Filch will operate with any program that does not also tamper with the BIOS (keyboard interpretation program) of the PC as long as the keyboard interrupts are shared.



**Product Name:** Handi-Keys

**Vendor:** McCuiston, Ronald S.

**Computer:** TRS-80 Model II

**Manual Form:** Printed

**Cost:** \$40.00

Handi-Keys allows the user to redefine the standard QWERTY computer keyboard to suit individual needs. Handi-Keys consists of two BASIC programs. One of the programs redefines the keyboard to the user's specifications. The other program available accepts any text as input and gives statistical analysis as output.



**Product Name:** Hope

**Vendor:** Micro Connection, Inc.

**Computer:** Apple II family, IBM PC family

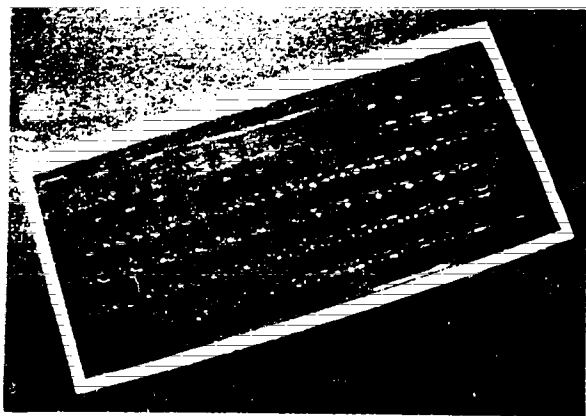
**Manual Form:** Printed

**Cost:** \$59.95

Hope is a keyboard modification program for the IBM-PC and compatibles that affects the CONTROL, ALTERNATE, and SHIFT keys. An additional version is available for the Apple which changes the function of the ESCAPE and CONTROL keys for one finger operation. Hope sets these keys so that they only need to be pressed once before another key is pressed rather than held down while another key is pressed. Hope is designed for single-finger or headstick typists. Hope is transparent to most commercially available software.

One disk drive or a hard disk is required to run Hope.





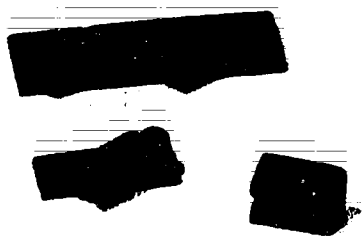
**Product Name:** HX-20 Protective Cover

**Vendor:** Adaptive Communication Systems, Inc.

**Computer:** Epson HX20

**Cost:** \$24.95

The HX-20 Protective Cover is a clear plastic keyboard cover. The Protective Cover prevents moisture from entering the computer through the keyboard, and does not interfere with the normal operation of the keyboard.



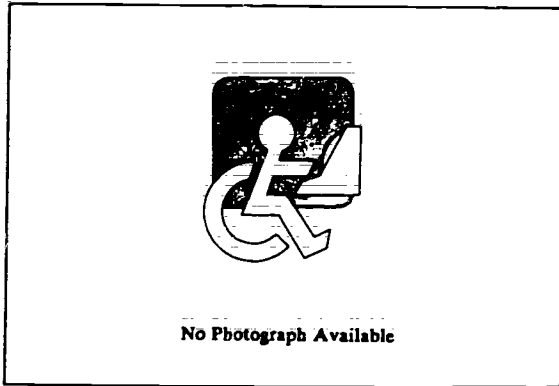
**Product Name:** Key Latches

**Vendor:** Words+, Inc.

**Computer:** Epson HX20

**Cost:** \$35.00

These key latches are designed to allow latching on/off operation of keys which otherwise have to be held down while another key is pressed. They are available for the SHIFT, CONTROL, and GRAPHICS keys on the Epson HX-20 portable computer, as well as communication aids based on that computer (see Portable Voice, Words+). A power switch extension is also available.



**Product Name:** Key Tronic Plug-Compatible Keyboards

**Vendor:** Key Tronic

**Computer:** IBM PC family, IBM PC jr

**Cost:** \$159.00-\$255.00

Key Tronic Plug-Compatible Keyboards are keyboards which function like their standard counterparts, but offer different layouts. Among the layout features offered are function keys along the top of the board (rather than on the left as on a standard IBM-PC keyboard), separate cursor and numeric keypads, and different locations for some of the non-character keys.

Price differs between models of the keyboards. The KB 5150 (\$159.00) has the same layout as a standard PC/XT, with different quality and features, including PCjr options for adaptations for one-finger typing. The KB 5151 (\$255.00) has the layout alterations described above, and can be changed to Dvorak configuration with a conversion kit (extra). These keyboards are available for the IBM-PC, XT, and PCjr, and some models have special handicapped versions available. Contact the manufacturer for details.



**Product Name:** Keyboard Covers

**Vendor:** Steven E. Kanor, Ph.D., Inc.

**Computer:** Apple II family

**Cost:** \$35.00

Keyboard Covers are a set of hinged plastic plates that go over a standard keyboard. They are designed for use with computer programs which require only one or a few keys to be pressed. Special bumpers are placed on the bottom of each cover over the desired keys. When the cover is struck, the bumpers strike the desired keys. Keyboard Covers are attached to the keyboard with hook-and-loop material, and can be used in one, two, or four striking area configurations.



**Product Name:** Keyer

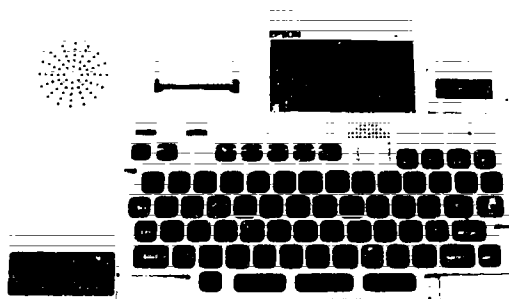
**Vendor:** Covington Group

**Computer:** NEC, TRS-80 Model 100,  
TRS-80 Model 200

**Manual Form:** Printed

**Cost:** \$19.95

Keyer is a program that allows the user to "move" the location of keys on the keyboard to any desired alternate location. Keyer may be used to re-define the keyboard in a Dvorak or one-hand layout. It is available on cassette for the Tandy 100, Tandy 200 and NEC 8201A computers. Keyer can be used with most all standard software.



**Product Name:** Keyguard

**Vendor:** Adaptive Communication Systems, Inc.

**Computer:** Epson HX20

**Cost:** \$95.00

This Keyguard is designed for the keyboard of the Epson HX-20. It is designed to prevent the single finger, mouthstick, or headstick typist from making accidental key presses. The keyboard configuration will work with Adaptive Communication Systems' various communication aids based on the Epson HX-20 as well.

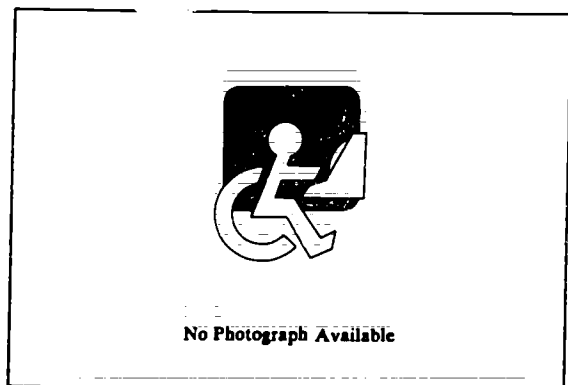
**Product Name:** Keyguard

**Vendor:** ComputAbility Corporation

**Computer:** Apple IIc, Apple IIe

**Cost:** \$79.95

This Keyguard is designed for the single finger, mouthstick or headstick typist, preventing unwanted key presses. Latching mechanisms are provided for the SHIFT and CONTROL keys. This keyguard is available for the Apple IIe and IIc. It attaches to the keyboard with Velcro, and may be removed at any time.



**Product Name:** Keyguard

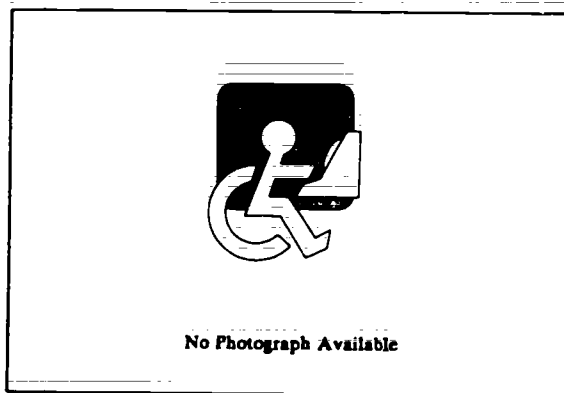
**Vendor:** Zygo Industries, Inc.

**Computer:**

**Cost:** \$100.00

This keyguard is made of transparent plastic. Square holes are located above each key position. The keyguard provides a surface on which to rest the hands while typing and prevents inadvertent keystrokes.

This keyguard is designed to fit the Sharp Memowriter. This hand-held portable writing aid is no longer made, but for those who have the Memowriter, this keyguard is still available.



**Product Name:** Keyguards

**Vendor:** CPH-2

**Computer:** Apple II+, Apple IIe, TRS-80 Model I, TRS-80 Model III

**Cost:** \$30.00

These stencil-like keyguards are made of brushed aluminum and are easily removable and replaceable on the keyboard. These keyguards are available through CPH-2 to its members.

Options include wire forms that can be attached to hold down certain keys so that multiple key entries may be made. Contact CPH-2 for information on obtaining membership and keyguards.



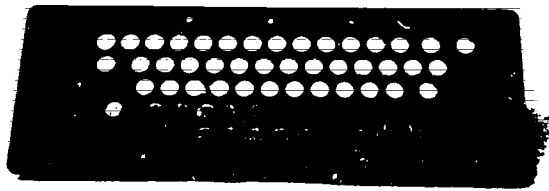
**Product Name:** Keyguards

**Vendor:** Developmental Equipment

**Computer:** Apple II family, Commodore 64, IBM PC jr, VIC 20

**Cost:** \$89.50

These Keyguards promote accuracy in keypressing by single finger, headstick, or mouthstick typists. Latching mechanisms are provided to hold down the SHIFT and CONTROL keys. These Keyguards are available for the Apple II+, IIe, and IIc, Commodore 64 and VIC-20, and IBM-PCjr. Keyguards are easily removable from the keyboard.



**Product Name:** Keyguards

**Vendor:** Prentke Romich Company

**Computer:** Apple II family, Apple Macintosh, Atari, Commodore 64, Franklin family, IBM PC family, TI 99/4A

**Cost:** \$85.00 - \$100.00

These keyguards are made of dark brown plastic and have 0.6"-diameter holes for each key location. The keyguard prevents the user from inadvertently pressing more than one key at a time. These feature keylocks to hold down keys such as SHIFT that must be depressed at the same time as other keys. The IBM PC model utilizes software to allow single finger input rather than keylocks. Hook-and-loop type fasteners are provided for attaching and detaching from the keyboard. For custom keyguards for computer brands not listed, contact Prentke Romich.



**Product Name:** Keyguards

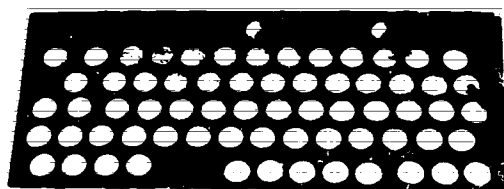
**Vendor:** TASH, Inc.

**Computer:** Apple II family, Commodore 64, IBM PC family, VIC 20

**Cost:** \$44.00 - \$174.50

These keyguards are metal shields with holes over the key positions which help prevent the unintentional activation of more than one key at a time.

Keyguards are available for the Commodore 64 and VIC-20, the IBM-PC, and the Apple IIc, II+, and IIx. The Commodore and Apple IIc and II+ models have spaces for the installation of keylocks (extra; see entry for Keylocks: TASH, Inc.). Mount with velcro (provided).



**Product Name:** Keyguards

**Vendor:** Words+, Inc.

**Computer:** Apple IIc, Apple IIe, Epson HX20, Grid

**Cost:** \$50.00 - \$75.00

This keyguard is made of ABS plastic and has hook-and-loop fasteners for attaching it to the keyboard. Round holes above each key provide a guide for the finger or pointer and prevent the inadvertent pressing of keys.



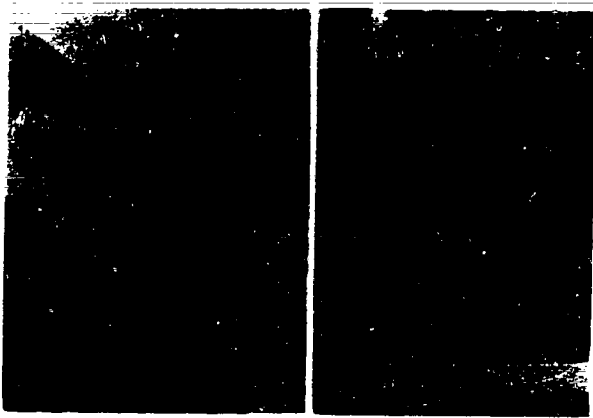
**Product Name:** Keylocks

**Vendor:** Adaptive Technology, Inc.

**Computer:** Apple II family, Apple Macintosh, IBM PC family, IBM PC jr

**Cost:** \$10.00

These Keylocks are designed for holes corresponding to the CONTROL, SHIFT, or ESCAPE keys on a Keyshield (see entry, same manufacturer). Keylocks can also be threaded into any open hole on the keyshield to hold other keys. Keylocks allow the single finger, headstick, or mouthstick typist to toggle these keys on and off.



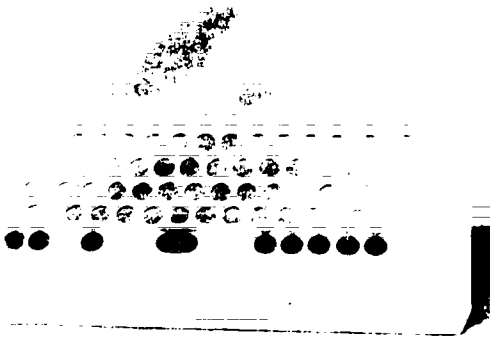
**Product Name:** Keylocks

**Vendor:** TASH, Inc.

**Computer:** Apple II family, Commodore 64,  
VIC 20

**Cost:** \$44.00

These keylocks fasten to the right side of the keyboard. They are engaged by pushing on one side of the levers and released by pushing on the other side. The Apple IIe and II+ models control the SHIFT and CONTROL keys; the Commodore VIC-20 and 64 models control the CONTROL and COMMODORE keys.



**Product Name:** Keyshields

**Vendor:** Adaptive Technology, Inc.

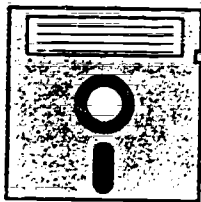
**Computer:** Apple II family, Apple Macintosh,  
IBM PC family, IBM PC jr

**Cost:** \$15.00 - \$25.00

Key Shields are plastic keyguards designed to provide a disabled computer user access to all keyboard keys while preventing accidental key presses. Key Shields are also available in custom formats (only selected keys exposed), or as dust covers (no keys exposed).

Keylocks, latching devices designed to hold down the SHIFT, CONTROL, ESC, or other keys, are also available. For details, see the separate entry in this book.





**Product Name:** MacroWorks

**Vendor:** Beagle Bros., Inc.

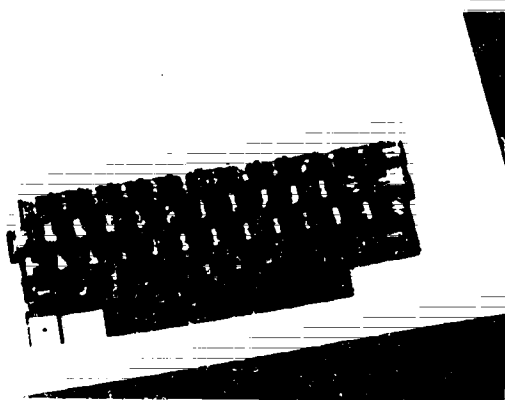
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$34.95

MacroWorks is designed to allow one keystroke commands when using Appleworks. Any series of keystrokes can be converted into a one keystroke Appleworks command (macro), and the program also contains 25 built-in macros. The program may be installed on your Appleworks disc, hard disk, RAM disk or Unidisk 3.5.

MacroWorks also contains three other AppleWorks-related programs. Multi-Column Printer prints word processor files in side-by-side columns for newspaper layout. File Analyzer prints a sorted list of every word in a file, indicating number of occurrences per word and average word length. Catalog Alphabetizer prints a sorted list of all the files on a disk.



**Product Name:** Moisture Guard

**Vendor:** Developmental Equipment

**Computer:** Apple II family

**Cost:** \$24.95

Moisture Guards are flexible clear plastic keyboard covers that protect the keyboard from moisture without altering normal keyboard use. Moisture Guards are available for the Apple II+, IIe, and IIc.



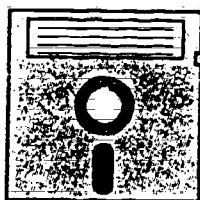
**Product Name:** Moisture Guard

**Vendor:** Words+, Inc.

**Computer:** Apple II family, Epson HX20, Grid, IBM PC family

**Cost:** \$25.00

Moisture Guard is a clear plastic cover for the keys of a computer or communication aid. The cover allows keys to be pressed, but prevents liquids, dust, and dirt from getting on or between the keys.



**Product Name:** One Finger

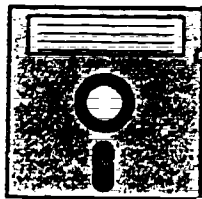
**Vendor:** Trace Center

**Computer:** IBM PC family

**Manual Form:** Electronic

**Cost:** \$10.00

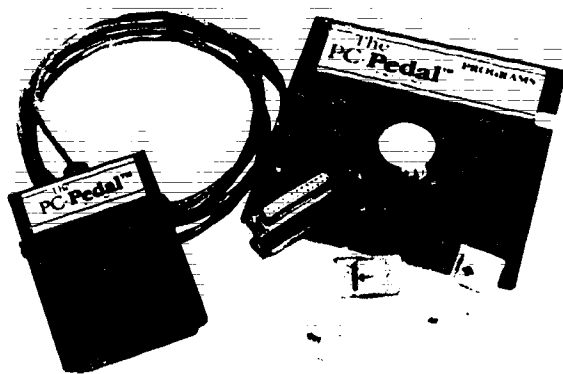
One Finger is designed to allow the one finger, headstick, or mouthstick computer user to use standard software for the IBM PC, PC/XT, PC jr. and the IBM AT. The program remains resident in the computer once invoked. Although each model handles the keyboard a bit differently, the program is able to determine which is being used. The program allows one finger use of the Shift keys, Control key and Alt key. Depressing and releasing one of these keys once makes it active for the next key. Depressing it twice locks that key until it is unlocked by depressing it again. One Finger also allows: manual turning on and off of the program, audible feedback on the states of the shift keys and when the program is manually turned on or off, user selectable delay time on the automatic repeat of the keys from 0.5 to 60 seconds in 0.1 second intervals, and automatic turning off of the program if a shift plus another key are held down at the same time.



**Product Name:** PC Assisted Keyboard  
**Vendor:** Designing Aids for Disabled Adults  
**Computer:** IBM PC AT, IBM PC family  
**Manual Form:** Printed  
**Cost:** \$40.00

PC Assisted Keyboard is a program that allows keys on the keyboard to be redefined. Once the user has redefined a key, pressing that key will send to the computer the new character associated with it. The program redefines the keyboard into a special one-fingered configuration, and allows SHIFT, CONTROL, and ALT keys to toggle on and off.

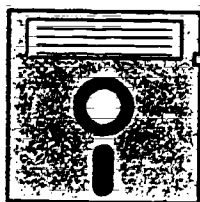
PC Assisted Keyboard is compatible with most software.



**Product Name:** PC-Pedal  
**Vendor:** Brown & Company, Inc.  
**Computer:** IBM PC family  
**Cost:** \$79.95

PC-Pedal is a single foot-pedal switch that acts as any of several keys on the computer's keyboard, permitting one-handed computing. Two versions are available: the Standard, which can control the SHIFT, ALTERNATE, or CONTROL keys, and the Enhanced, which can control any desired key. Either version may also be used to temporarily redefine the space bar as a backspace-delete key, so that the user does not need to move from the home position to perform this function. To choose which key the pedal will emulate, the user presses the pedal and simultaneously presses the desired special key. When the pedal is subsequently pressed, it will act as the defined key until it is redefined in the same manner. Any single switch may be substituted for the pedal, and it may be mounted anywhere that the user may best operate it. All setup software is included with PC-Pedal.

PC-Pedal plugs into the standard parallel port of the computer. A printer may be plugged into the back of the PC-Pedal plug, and the two will not interfere with each other.



**Product Name:** ProKey

**Vendor:** RoseSoft, Inc.

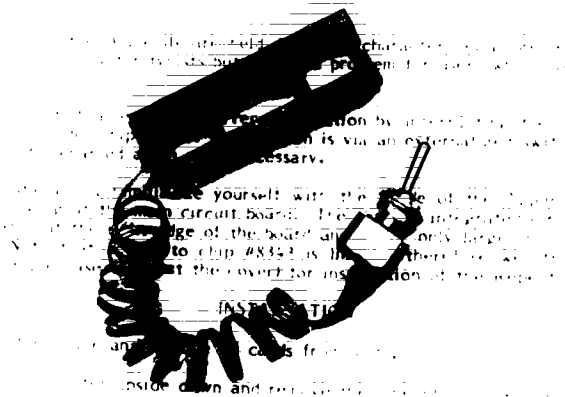
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$129.95

ProKey is a keyboard enhancement program that allows the user to type long character strings or groups of commands ("macros") by entering two keystrokes. ProKey allows the user to include fixed or variable-length pauses in macros. Up to 300 macros may be defined, storing a total of 30,000 characters. Macros are called up by a multiple character name, and may be created and edited while another program is running. Program includes a one key feature for operation of shift and control keys.

ProKey version 4.0 works with the new IBM enhanced keyboards. Contact manufacturer for details.



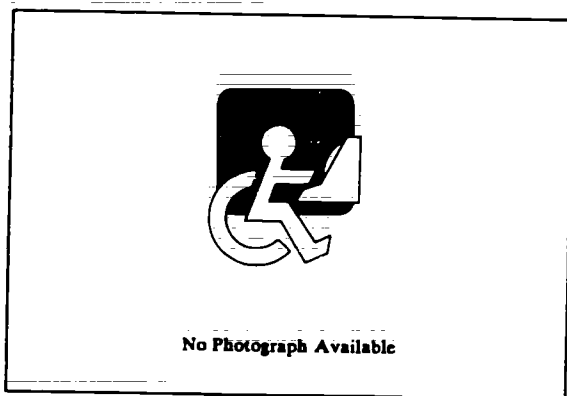
**Product Name:** Repeat Defeat

**Vendor:** Life Science Associates

**Computer:** Apple IIe

**Cost:** \$29.95

Repeat Defeat is an integrated circuit socket that disables the auto-repeat function of an Apple IIe keyboard. Repeat Defeat plugs into an existing chip's socket (8343); the chip then plugs into Repeat Defeat. Repeat Defeat can be installed by an average user (instructions are included), and comes with an on/off switch that can be mounted outside the computer's housing, so that normal keyboard operation for typing is possible.



**Product Name:** SafeSkin Keyboard Protector

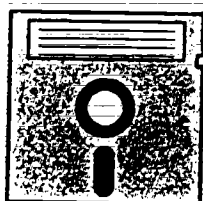
**Vendor:** Merritt Computer Products, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$24.95-\$29.95

SafeSkin Keyboard Protectors prevent damage to the keyboard resulting from liquid spills, foreign matter, and other hazards. SafeSkin is precision molded to fit the exact contours of the keyboard and is virtually transparent, making keytops and any side markings clearly visible. It remains in place during keyboard use.

SafeSkin is currently available for a wide variety of personal computers and workstations, including the Apple II series of computers, the Macintosh, Commodore 64 and VIC 20, TRS-80 Model III, Epson HX-20, Radio Shack Model 100, IBM PC, IBM XT, IBM AT, IBM 3270 & 3180, IBM 3278 & 3101, the Hewlett Packard series, and many others. Custom covers are available. Contact the manufacturer for a full listing.



**Product Name:** Smartkey

**Vendor:** Software Research Technologies

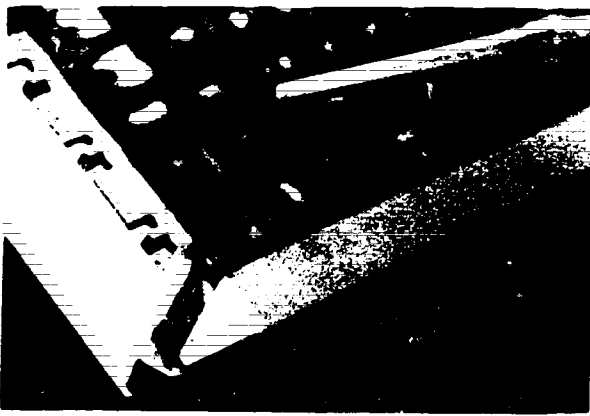
**Computer:** Any CP/M Computer,  
IBM PC family

**Manual Form:** Printed

**Cost:** \$49.95 - 59.95

SmartKey is a program that allows the user to define macros: strings of characters that are triggered by typing a single character. Macros can be used to reduce the amount of typing an individual has to do to create a text, enter commands, etc. Up to 60,000 characters can be generated with a single keystroke, and multiple keystrokes can also be used as triggers (for instance, "SY" for "Sincerely Yours").

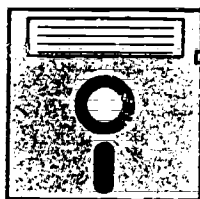
SmartKey has various features, including PCKey, a feature that allows the user to change the layout of the keyboard (which keys correspond to which characters) and allows the SHIFT and CONTROL keys to toggle on and off.



**Product Name:** Stick-On Keylocks  
**Vendor:** Extensions for Independence  
**Computer:** All (Hardware Independent)  
**Cost:** \$14.95 - \$24.95

Stick-On Keylocks are levers that stick to the side of a computer keyboard and can be used to lock down keys (such as CONTROL) that frequently must be pressed at the same time as another key. The locks can be operated by a light touch with a pointing device such as a mouthstick.

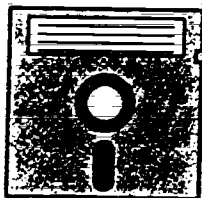
Stick-On Keylocks are available in three models: Standard (fits most Apples, and ALT keys on IBMs), Special (suited to many other key configurations), and Custom (made to order).



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**Product Name:** SuperKey  
**Vendor:** Borland International  
**Computer:** IBM PC family  
**Manual Form:** Printed  
**Cost:** \$69.95

SuperKey is a keyboard enhancement program for the IBM-PC. SuperKey allows the user to store several frequently-used commands or long phrases and retrieve them with two keystrokes. SuperKey also allows the user to cut and paste text between applications programs, and create single-page help screens for each set of macros created. The user may include fixed or variable-length pauses in macros. SuperKey will also turn off the screen if the keyboard is not touched for a user-specified time.



**Product Name:** XtraKey

**Vendor:** Xpert Software

**Computer:** Any CP/M Computer

**Manual Form:** Printed

**Cost:** \$25.00 - \$29.95

XtraKey is a program that allows "macros" to be defined for keys on the computer keyboard. A macro is a string of characters which can be activated by typing one character. The user can assign up to seven different macros to each key, and by selecting the macro set and then depressing a key, the user selects that string of characters for that key. The length of each character string is limited only by the amount of memory the user wishes to consume. Defined macros can also be set up so as to activate other macros if desired.

Though the regular retail price of XtraKey is \$29.95, a discount price of \$20.00 is offered to customers with disabilities.

## Chapter 2

# Alternate Inputs Usable with All Software

*This chapter includes alternate input systems which can be used directly and are transparent, or in conjunction with some adapter (transparent access with adapter) to control any standard software written for the computer. Modifications to the standard computer keyboard are not included in this category, even though they are also transparent. This chapter includes only alternate inputs. Transparent alternate input systems for the mouse and other standard inputs as well as alternatives to keyboard input are found here.*

*Related input/output features found in the cross reference indexes include Speech Recognition (ITS), Switch Input (ITI), Pressure Sensitive (ITP) and Light Sensitive-Optical (ITL), etc. Other related input features include Morse Code (IEM), Scanning (IMS) and Directed Scanning (IMX).*

*Appendix A includes information briefs including Newsletters and Publications of Interest to Disabled Computer Users, Associations and Self-Help Groups, Computer Assessment and Training Programs for the Disabled, etc.*



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Computer Entry Terminal 3-25	Kennedy Switch Key Software 3-136
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Brailink III 3-83  
 Butler-in-a-Box 2-46  
 Canon Communicator M 1-63  
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**Product Name:** Access-Ability

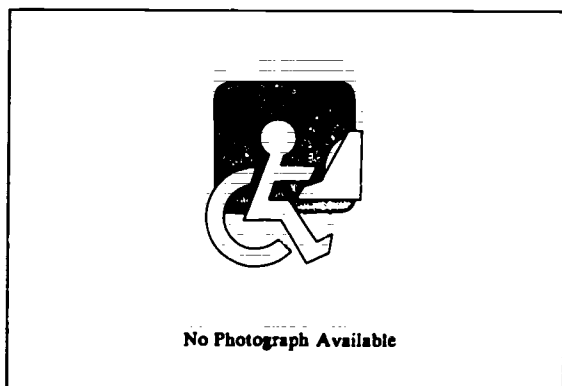
**Vendor:** Kingware

**Computer:** Commodore 64

**Cost:** \$79.00

Access-Ability is a program that allows the user to type in characters on the Commodore 64 computer by sipping and puffing on a tube. When the user sips, the program generates a series of dashes; during blowing, a series of dots. The dots and dashes stop when the sipping or puffing action stops. In this way, the user transmits to the computer a modified Morse code that contains characters equivalent to each character on the computer's keyboard. Two "keystrokes" will call up at any time a list of the codes. The speed at which the dots and dashes are generated during sipping and puffing is user-adjustable. Two specially defined key combinations will turn on and off a character repeat function (useful for moving the cursor). Provision is made for operating keys such as SHIFT which is normally depressed at the same time as another key. This program is not fully transparent.

A number of original and public domain programs are included on the program disk. A copy of the word processing program SpeedScript which is adapted for Access Ability is also included.



**Product Name:** ACS Medicom Computer System

**Vendor:** ACS Telecom

**Computer:** IBM PC family

**Cost:** \$5,000.00 - \$19,000.00

ACS Medicom Computer System is a complete system for communication, environmental control, and computer access based on two IBM-PC compatible computers. The two computers are connected as a parallel system, and allow the user access to all IBM-PC software. Two input systems are provided: voice and switch. The voice input system allows the user to create vocabularies of utterances which the computer will recognize and accept as input. The switch input system allows the user to enter data with a single switch, multiple switches, or a joystick. A voice output option is available that reads the contents of the screen back to the user via a speech synthesizer. With the ACS Medicom Computer System, the user may run standard software, control various appliances with BSR X-10 control modules, dial and talk on the telephone, or communicate via computer networks.

The ACS Medicom Computer System can also be used for wheelchair and robotics control. Various expansion options are available. Cost of the system will vary depending on the features desired. Contact manufacturer for details on price.



**Product Name:** Adaptive Firmware Card

**Vendor:** Adaptive Peripherals, Inc.

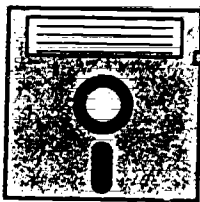
**Computer:** Apple II+, Apple IIe

**Cost:** \$400

The Adaptive Firmware Card allows physically disabled persons to run commercially available educational, business, or user-written software using any of sixteen special input methods. The special input methods possible with the Adaptive Firmware Card include single switch, and dual switch (scanning and Morse Code), expanded keyboard capabilities, and keyboard assisting features for individuals using a headpointing device or a single finger. The Adaptive Firmware Card also offers game paddle emulation and a slowdown mode, allowing the user to operate some arcade-type games with one or two switches. The Adaptive Firmware Card does not interfere with the use of the computer keyboard when installed.

Special feature software is included. The Adaptive Firmware Card is compatible with software using the Language Card (Pascal, etc.) and is compatible with the Z-80 (CP/M) card. Talking Scanner, a program for adding voice output to the scanning arrays, is included with the Adaptive Firmware Card (see entry).

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**Product Name:** ALTKEY

**Vendor:** Dept. of Physical Medicine & Rehab., U of Michigan

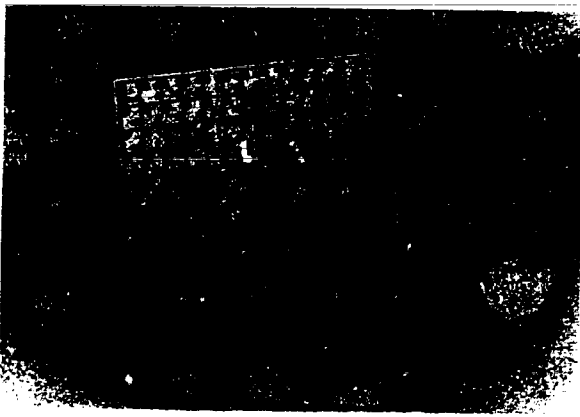
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** Contact developer

ALTKEY is designed for a user who must control a personal computer using a single switch. It gives the single switch user direct control over virtually all commercially available software for the IBM-PC and IBM-PC compatibles. Regular keyboard function is unaffected.

ALTKEY is loaded automatically when the computer is powered up. Any of the shift keys on the keyboard (Alt, Ctrl, Shift) may be brought out to an external switch with two solder connections. Different scan trees can be loaded from floppy disk files. This is a memory-resident program which implements a programmable n-dimensional keyboard scanner. It gives the user access to all the keys and key combinations on a standard IBM-PC keyboard. The scan tree may be arbitrarily complex and may be freely edited by the user.



**Product Name:** Computapter

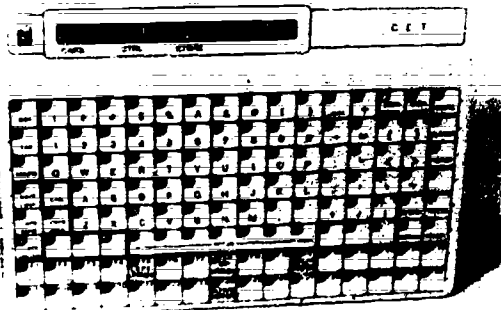
**Vendor:** R/M Systems

**Computer:** Apple II family

**Cost:** \$1,300.00

Computapter is an alternate computer keyboard that allows the user to select characters by scanning. The keyboard consists of a scanning array that stands upright attached to a horizontal panel that contains three switches: one for scanning horizontally, one for scanning vertically, and one for selecting a character once it has been reached. The scanning array is comprised of six rows: four containing standard keyboard characters, and the remaining two rows can be user programmed for options of commands for Applewriter, Appleworks, LOGO, or other Apple commands. Shift and control options are two key functions. The three switches are activated by skin contact (no pressure necessary). A five-position adjustment varies the response time of the switches. Switch activation is signalled by a tone and light signals on the panel.

Computapter functions exactly as a standard keyboard would, and does not interfere with such auxilliary devices as disc drives or the game input. Input jacks are provided so that other switches can be used in place of those that come with the Computapter.



**Product Name:** Computer Entry Terminal

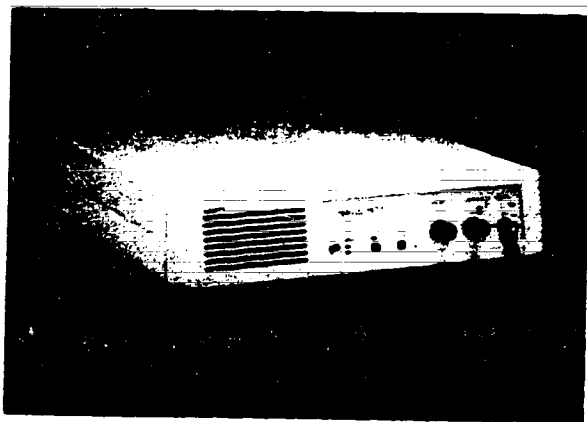
**Vendor:** Prentke Romich Company

**Computer:** Apple II+, Apple IIe, Franklin 1000, IBM PC family

**Cost:** \$1,492.00

The Computer Entry Terminal is an alternate computer keyboard that can be operated by direct selection with an optical pointer, or by scanning with single, dual, or multiple switches. Scanning can be automatic, row-and-column, or directed. Output from the Computer Entry Terminal is in the form of ASCII; a keyboard emulating interface (extra) is required for the terminal to act as a keyboard. Approximately 250 characters can be stored in the terminal's memory before being sent to the computer.

The Computer Entry Terminal comes with two overlays (QWERTY and scanning) and a battery charger/power supply. Prentke Romich offers keyboard emulating interfaces for the IBM-PC, Apple II+ and IIe and Franklin 1000. An optical pointer or switches are also required for operation.



**Product Name:** Coretechs VET3

**Vendor:** Scott Instruments

**Computer:** All (Hardware Independent)

**Cost:** \$8,995.00

Coretechs VET3 is a device that allows spoken phrases to serve as input to a computer. The user creates a vocabulary of up to 200 words, letters, or phrases for each application. The user trains the VET3 to recognize these short utterances, and to assign each trained utterance a sequence of characters. When the trained phrase is spoken into a microphone connected to the VET3, the assigned sequence of characters is sent to the computer as keyboard input. The standard keyboard may remain active while the VET3 is in use. The VET3 allows continuous speech; that is, there need be no unnatural pauses between words. Additional 200-word vocabularies may be created, stored and recalled when needed. Messages can also be digitally stored and played back. A built-in program for facilitating vocabulary preparation is provided.

Coretechs VET3 is an external unit usable with various computer systems. Output from the VET3 is via an RS-232 serial port. Telephone interface and memory expansion options available. This is the new product from Scott and replaces the Shadow/VET.

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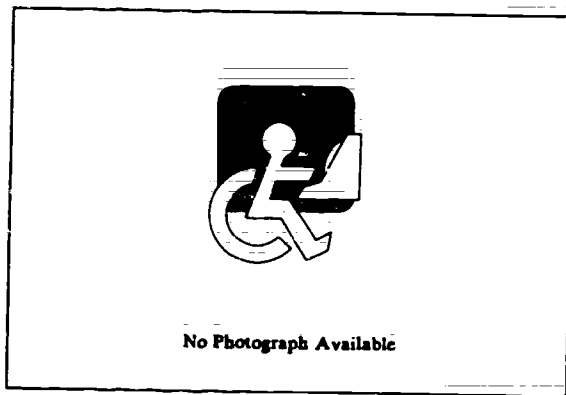
**Product Name:** DART-5000

**Vendor:** Dragon Systems, Inc.

**Computer:** IBM PC family

**Cost:** \$5995.00

DART-5000 is a complete computer workstation with voice input capability. The system comes with a full 1000-word active vocabulary with the capability for up to 5000 word effective vocabulary through word completion software. Once the user has programmed the system to recognize particular utterances, these can serve as input to the computer. The user can define what input a particular utterance will trigger. The system comes with a MS DOS-based microcomputer and vocabulary management software.



**Product Name:** Ears

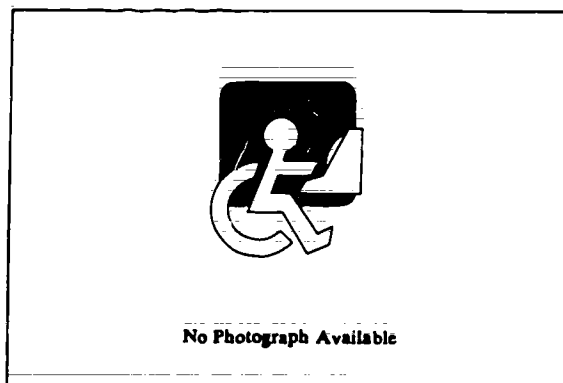
**Vendor:** Speech Systems: Illinois

**Computer:** TRS-80 Color

**Cost:** \$99.95

Ears is a voice input system for the Tandy Color Computer. The system consists of a hardware pack, microphone, and demonstration programs. The user trains the system to recognize certain utterances, and to associate them with particular characters, words, commands, etc. When the user speaks a trained utterance into the microphone, Ears sends the programmed set of characters as input to the computer.

Ears may also be used in conjunction with the Super Voice speech synthesizer (see entry) to outfit programs for voice input and output. Some adapters are required.



**Product Name:** EDACTS Keyboard

**Vendor:** Fa-Da Enterprises

**Computer:** Commodore 64

**Cost:** \$195.00

The EDACTS Keyboard (Everyone Deserves A Chance To Speak) is an oversized keyboard connected to an internal circuit board from a Commodore 64 computer. Price includes cost of Commodore 64. The keyboard contains 80 pushbutton keys, each 3/4" square, hinged on the edge furthest away from the user. Keys are color coded (alpha-numeric keys-cursor movement-function, etc.). Keys are separated horizontally by small vertical dividing walls. The rows are 1" apart and each is 3/8" higher than the preceding one. There are two modes of operation. One requires a single key press and the other requires two presses consecutively. The second option reduces unintentional key entries. A beep sounds when a key press is accepted (after each key press in single hit mode, after two consecutive in double hit mode). Certain keys (shift, control, caps on, etc.) are electronically latched to be controlled by pressing only one key at a time. A COMvoice speech synthesizer and VICcontroller allow speech output and environmental control (purchased separately, made by Genesis). The EDACTS can also function as input to other computer systems, with appropriate interfaces and emulators. Contact manufacturer for details.



**Product Name:** Elementary MOD Keyboard System

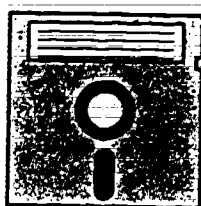
**Vendor:** TASH, Inc.

**Computer:** Apple II+, Apple IIe

**Cost:** \$230.00

The Elementary MOD Keyboard is similar in concept to the MOD Keyboard, providing an economical computer access system. This version has been designed primarily for educational applications where a teacher, rather than the disabled user, would create or edit the screen pages. Just as with the MOD, simplified "keyboards on the screen" can be created for interaction with each program being run on the host computer. The EMK is intended for severely physically handicapped students who require large letters and clear presentation of items. There are many options for scanning method and timing intervals. Single, dual or multiple switch input may be used. Characters displayed on the screen may be normal size or double height. Any item on the screen can be defined to transmit a character or message different than the label, so that long words or phrases can be represented by abbreviations. The EMK System consists of a VIC 20 computer, monitor, Elementary MOD cartridge, interconnection kit, and switch interface. A speech synthesizer can be used as the output device rather than the host computer. A French language version of EMOD is also available.

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**Product Name:** Enable Writer

**Vendor:** Enable Software Company

**Computer:** TRS-80 Model III, TRS-80 Model IV

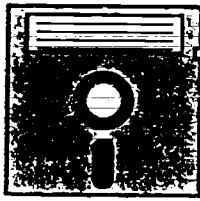
**Manual Form:** Printed

**Cost:** \$79.00

Enable Writer is a Program that allows characters to be "typed" into the computer using a joystick. An array of keyboard characters appears and remains at the bottom of the screen. Using the joystick, the user manipulates a blinking cursor around this array. When the user reaches the desired character, the cursor is held on that character for a certain minimum number of blinks, and that character registers as input. The speed of the cursor movement and the minimum number of blinks are both adjustable. With Enable Writer, the user has access to the disk operating system (TRSDOS 13), the BASIC language, and the word processing and database programs that are provided with Enable Writer. This adaptation is not fully transparent - that is, it will not work with all software for the Radio Shack computers.

A compatible joystick is required to use Enable Writer.





**Product Name:** EXPAND

**Vendor:** Dept. of Physical Medicine & Rehab, U of Michigan

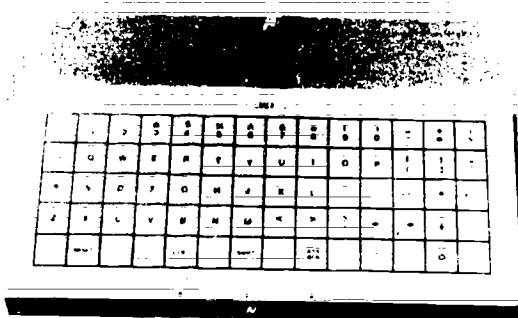
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** Contact developer

EXPAND is a scrolling terminal program designed to improve the rate of text output for individuals with restricted typing/input speeds. The user enters text via the keyboard of an Apple II family computer. After each keystroke the program presents a group of up to 10 possible expansions for the abbreviation represented by the keys already entered. These abbreviation-expansion combinations have been selected and stored previously by the user. At any time the user may select one of these choices. The program then removes the abbreviation and substitutes the expansion in the text stream.

EXPAND can be used as a stand-alone system or as an input device to a second computer.



**Product Name:** Expanded Computer Keyboards

**Vendor:** EKEG Electronics Company LTD

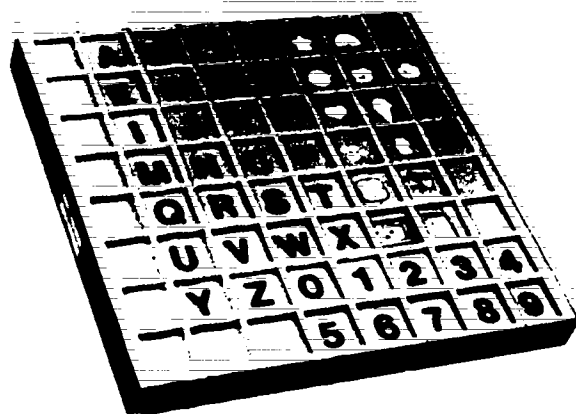
**Computer:** Apple II+, Apple IIe, Commodore 64, IBM PC family

**Cost:** \$750.00 - \$975.00

Expanded Computer Keyboards are large panels that are designed to operate exactly like standard computer keyboards, but have substantially larger keys. These keyboards contain their own microprocessor and connect in such a way that the standard keyboard can remain in operation as well. Latching switches are provided for those keys such as SHIFT which would normally have to be held down at the same time as another key. Keyboards are flat which allows overlays to be added. A light shows when a key is latched.

Expanded Computer Keyboards send the same output to the computer as the standard keyboard to which they are equivalent, allowing the user to perform all the same functions. Expanded Keyboards are available for the Apple II+ and IIe, for the Commodore 64, and for the IBM-PC models. Keyguards are available for the Apple IBM-PC, and Commodore models (extra).





**Product Name:** Expanded Keyboards

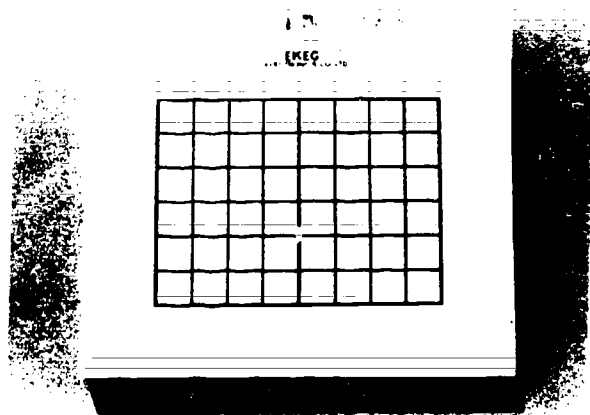
**Vendor:** Words+, Inc.

**Computer:** Apple II family

**Cost:** Contact manufacturer

These Expanded Keyboards are large panels of microswitches. The switches can be grouped into keys of various sizes, and may be programmed to act as an alternate keyboard for various Words+ communication devices as well as an Apple IIe computer. Overlays can be created to indicate which areas serve as which characters or functions.

The cost of manufacturing the keyboard depends upon the number and size of the keys desired. Contact the manufacturer.



**Product Name:** Expanded Keyboards for the Adaptive Firmware Cards

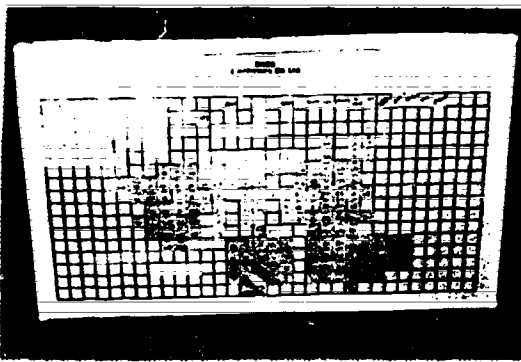
**Vendor:** EKEG Electronics Company LTD

**Computer:** Apple II+, Apple IIe

**Cost:** \$250.00 - \$350.00

Expanded Keyboards for Use with the Adaptive Firmware Cards are alternate keyboards designed for use with the Trace Center's Talking BlissApple program. Unlike EKEG's other keyboards for the BlissApple program, these do not contain a microprocessor, but must be used with an Apple II+ or IIe equipped with an Adaptive Firmware Card (Adaptive Peripherals, Seattle).

Two models of these Expanded Keyboards are available, one with 48 1" squares and one with 128 1" squares. Keyguards are available for both (extra).



**Product Name:** Expanded Keyboards for the Talking BlissApple

**Vendor:** EKEG Electronics Company LTD

**Computer:** Apple II family

**Cost:** \$850.00 - \$975.00

Expanded Keyboards for the Talking BlissApple are keyboards with a great number of squares, all the correct size for standard bliss stamps. The Keyboards have been designed for use with the Trace Center's Talking BlissApple program, but contain a small microprocessing unit and can send serial ASCII to any computer or device that will accept it through an RS232 port. Overlays for the Keyboards are user-definable.

Expanded Keyboards for the Talking BlissApple come in two models. One has 512 7/8" squares, measures 19" x 31", and weighs 8 lbs; the other has 220 1" squares, measures 15" x 21", and weighs 6 lbs. Keyguards for both models are available (extra).



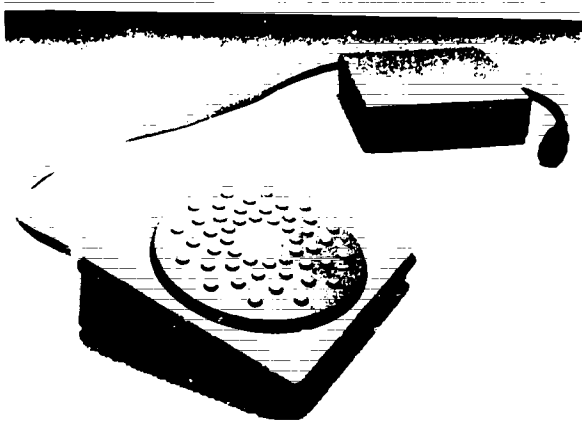
**Product Name:** FingerTip Controller

**Vendor:** KY Enterprises/Custom Computer Solutions

**Computer:** Apple II family, Atari, Commodore 64, NEC

**Cost:** \$15.00

FingerTip Controller includes five soft-touch buttons which simulate the action of a standard joystick to control screen movement in four directions, with the fifth button to fire or initiate action. A left hand model of the controller is available. The FingerTip Controller is connected to the computers with a 9-pin DIN jack.



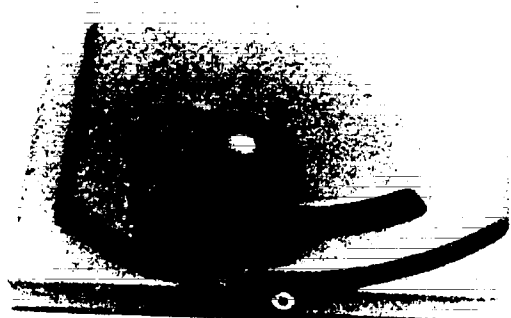
**Product Name:** Footmouse

**Vendor:** Versatron Corporation

**Computer:** IBM PC family

**Cost:** \$225.00

Footmouse is a cursor control device operated by foot movement. The base of the Footmouse remains on the floor, and the cursor is moved by sliding the foot over the base in an up, down, left, or right motion. Footmouse performs all the functions of the standard keyboard cursor keys, including auto-repeat if held down. Footmouse plugs in between the keyboard and the computer, and does not interfere with normal keyboard operations when in use.



**Product Name:** Game Paddle for Apple II Computers

**Vendor:** TASH, Inc.

**Computer:** Apple II family

**Cost:** \$198.00

Game Paddle for Apple II Computers is a proportional control that duplicates the function of standard Apple game paddles. The knob is a large ball and the base has a non-slip bottom. Motion of the knob is approximately linear.

An adapter is required to use this game paddle (extra; see entry for Switch Adapter for Apple II Computers). A jack (1/8" phone) is provided so that a switch may be connected for use with software requiring switch selection or a fire button.



**Product Name:** HeadMaster

**Vendor:** Personics Corporation

**Computer:** Apple Macintosh

**Cost:** See below

HeadMaster is a headpointing system that replaces the mouse and keyboard of an Apple Macintosh. An ultrasonic transmitting unit sits atop the Mac monitor and sends signals to a lightweight headset that the user wears. Headmaster translates changes in the user's head position into changes in the cursor's position on the screen. This positioning is relative; i.e., the user does not have to center his head directly in front of the screen. Lightly puffing into a tube connected to the headset is equivalent to pressing the mouse button. A program, ScreenTyper, is installed as a desk accessory, which, when activated, displays a two-line full function keyboard at the bottom of the Mac screen. The user types in characters by pointing the cursor to this keyboard image and puffing into the tube. HeadMaster and ScreenTyper are transparent to all available Mac software and provide complete access to the Macintosh.

HeadMaster is sold complete with a Macintosh. A 512K or Mac Plus model is required. Hard disk and printer are options. Price will vary depending on what elements are included in the package; Headmaster components are available separately at \$750.00.



**Product Name:** IntroVoice I & II

**Vendor:** Voice Connection

**Computer:** Apple II family

**Cost:** \$795.00 - \$995.00

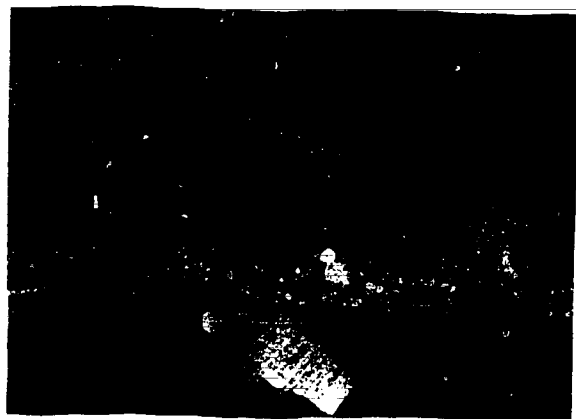
IntroVoice I and II are similar systems, both allowing spoken utterances to serve as input to an Apple computer. The user trains the system to recognize certain utterances, and to associate each of those utterances with a character or string of characters. When the user speaks the trained utterance into a microphone, the characters are sent to the computer as keyboard input. Each utterance may be 0.8 to 1.25 seconds long. IntroVoice comes with circuit boards, manual, microphone and software for creating and storing vocabularies.

IntroVoice I can accommodate up to 50 characters per utterance and up to 80 utterances per vocabulary; the numbers for IntroVoice II are 80 and 160. IntroVoice II also has various additional features, including voice activated on/off and standby, voice activated OPEN/CLOSED APPLE commands, repeat function, and vocabulary management programs that allow applications programs and vocabularies to be loaded by voice (programs optional with IntroVoice I).



**Product Name:** IntroVoice III  
**Vendor:** Voice Connection  
**Computer:** IBM PC family  
**Cost:** \$995.00

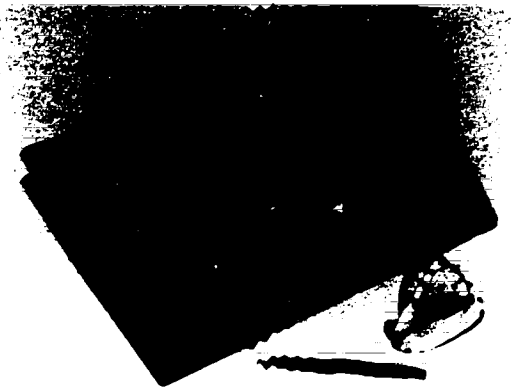
IntroVoice III is a combination keyboard and voice input system for an IBM-PC. The keyboard plugs in the same as a standard keyboard, and offers separate numeric and cursor keypads, top row function keys, and a voice on/off key. The voice input system can be trained to recognize utterances of up to 125 seconds in length, and programmed to enter a particular character string (1 to 76 characters long) for each trained utterance the user speaks into the system's microphone. The user can construct separate vocabularies for each application, and store them for use when needed (maximum 160 words per vocabulary). Software provided includes a program to create and store vocabulary, one to load an applications program and its vocabulary by voice, and one with pre-programmed vocabularies for some popular applications programs. Introvoice III comes with microphone, manual, and software.



**Product Name:** IntroVoice V  
**Vendor:** Voice Connection  
**Computer:** IBM PC family  
**Cost:** \$495.00

IntroVoice V is a voice input system for the IBM-PC. The user trains the system to recognize certain spoken utterances (up to 125 seconds long), and then programs these utterances to trigger strings of characters. When the user speaks a trained utterance into the system's microphone, the programmed string of characters is sent to the computer as if it were input from the keyboard. Sets of trained utterances may be created for each applications program; these vocabularies can contain up to 400 utterances apiece. Subgroups within a vocabulary may also be created. The number of characters triggered by each utterance depends upon how much memory the user is willing to consume; the maximum number of characters is 1,000. The microphone can be turned on and off by voice command.

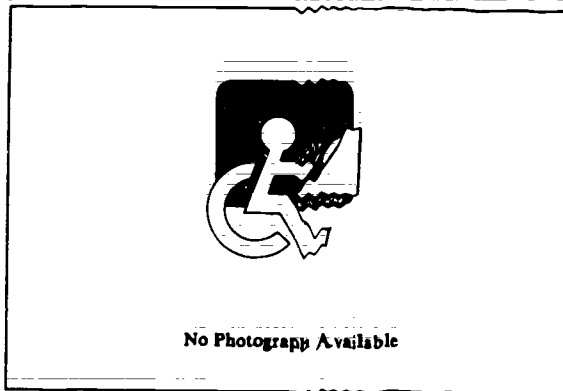
Software provided includes a program to assist the user in creating vocabularies and a program with pre-programmed vocabularies for certain popular applications software. The system includes a PC board, microphone, manual, and software.



**Product Name:** Keasyboard  
**Vendor:** Parallel Systems, Inc.  
**Computer:** Apple II family  
**Cost:** \$750.00

Keasyboard is a computer keyboard requiring no pressure to operate. The user simply places a finger (or pointer, etc.) over the desired key, and the interruption of light on the surface of the key registers a keystroke. Keasyboard's output to the computer is the same as that of a standard keyboard. Keasyboard comes with a built-in keyguard.

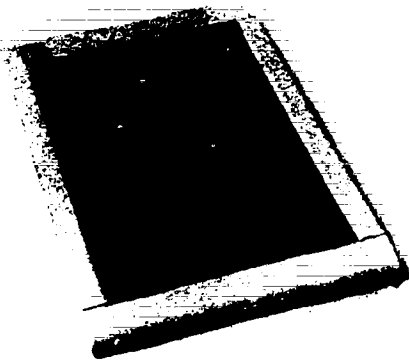
CONTROL, ALT, SHIFT, or any other desired key can be set to latch (factory modification). Multiple character key layouts can also be programmed at the factory. The Keasyboard connects directly to the Apple IIe; other Apples require modification.



**Product Name:** Keyboard Emulator  
**Vendor:** Crabapple Systems  
**Computer:** Apple II family  
**Cost:** Contact manufacturer

Keyboard Emulator is a circuit card that allows the PowerPad (see entry, Dunamis, Inc.) to be used as an alternate keyboard for the Apple IIe and II+. The PowerPad's membrane surface is converted to areas representing keys on the Apple computer. Each "key" is 1.5" square. The layout contains the F0-F3 function keys. An overlay of the keyboard layout is provided. One-finger operation is possible.

A PowerPad is required (extra). The Keyboard Emulator card plugs into the Apple, and the PowerPad plugs into it. The standard keyboard can remain operational. The developer has prototypes of the Keyboard Emulator and plans to have it commercially available in 1987. Contact Crabapple Systems for current status and price.



**Product Name:** Keyport 300

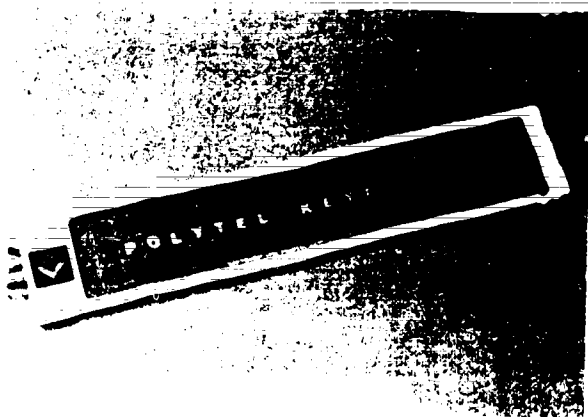
**Vendor:** Polytel Computer Products Corporation

**Computer:** IBM PC family

**Cost:** \$195.00

Keyport 300 is a 300-key alternate keyboard for the IBM-PC. Using the accompanying software (included), the user can assign any series of commands or characters to a single key on the Keyport 300's membrane surface. Different patterns of key assignments can be stored on disk and then recalled when running the appropriate piece of applications software. The user can place different custom overlays on the Keyport corresponding to these different key assignment patterns. Each key on the Keyport 300 is 0.5 inches square; larger keys can be created by assigning several adjacent keys the same value.

Keyport 300 plugs into the game port of the computer, and can be used at the same time as the standard keyboard. (If the computer does not have an active game port, it must be outfitted with one; contact your computer dealer.) Keyport 300 will work with virtually any applications software.



**Product Name:** Keyport 60

**Vendor:** Polytel Computer Products Corporation

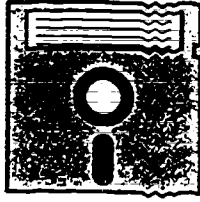
**Computer:** IBM PC family

**Cost:** \$119.00

Keyport 60 is a small membrane keyboard consisting of 60 0.5" square keys in a 3 x 20 layout. Using the accompanying software (included), each key on the Keyport 60 can be assigned a series of characters which then will be triggered when that key is pressed. Keyport 60 and the standard keyboard can be active at the same time. Patterns of key assignments can be stored on disk and then recalled, allowing the user to have a separate custom 60-key keyboard for any applications program. Overlays can be placed on the Keyport's surface to indicate which areas trigger which characters or commands. Larger key areas can be obtained by assigning adjacent keys the same value.

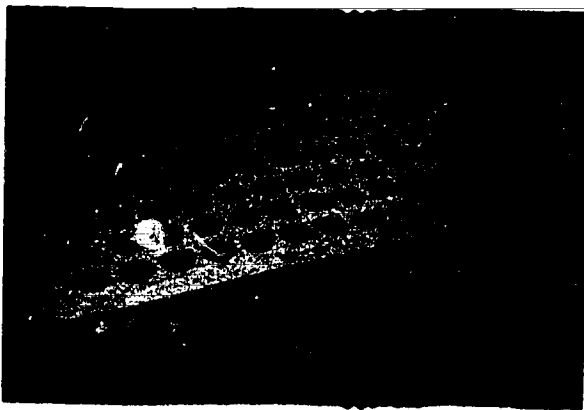
Keyport 60 plugs into the IBM's game port. (If the computer does not have an active game port, it must be outfitted with one; contact your computer dealer.) Keyport 60 can be affixed along the top of an IBM keyboard with adhesive pads (provided). Keyport 60 will work with virtually any applications software.





**Product Name:** Keyworks  
**Vendor:** Alpha Software  
**Computer:** IBM PC family  
**Manual Form:** Printed  
**Cost:** \$89.95

Keyworks is a keyboard enhancer program that allows the user to type long strings of characters or commands ("macros") by typing a two key combination. Keyworks also offers pop-up menus of available macros, full screen editing of macros while running another program, and a DOS window. Both fixed and variable-length pauses are available within predefined macros. Pop-up menus of available macros may be designed and named by the user.



**Product Name:** King Keyboard  
**Vendor:** TASH, Inc.  
**Computer:** Apple IIe  
**Cost:** \$930.00 - \$1,400.00

King Keyboard is an expanded version of the Apple IIe keyboard, with 1.25" diameter keys. The keys are slightly recessed so that the board's surface acts as a keyguard. Operating the keys requires 200 gm of pressure. When used with the Adaptive Firmware Card (Adaptive Peripherals, Inc.), all keys can be redefined so that they enter desired words, characters, or phrases; up to 128 messages can be stored and retrieved. Key response time can also be varied, and SHIFT and CONTROL keys are latched. When used with Keyscan II and the Keyboard Interface for Apple IIe (TASH, Inc.), King Keyboard provides adjustable key response time, audio feedback, indicator lights for SHIFT and CONTROL latching, entry of eight common commands with two keys, and a special key layout where the most commonly used keys are closest to the center and bottom of the board.

King Keyboard must be used with one of the above adaptive systems. When used with the Adaptive Firmware Card, King Keyboard may not operate with all IIe programs.

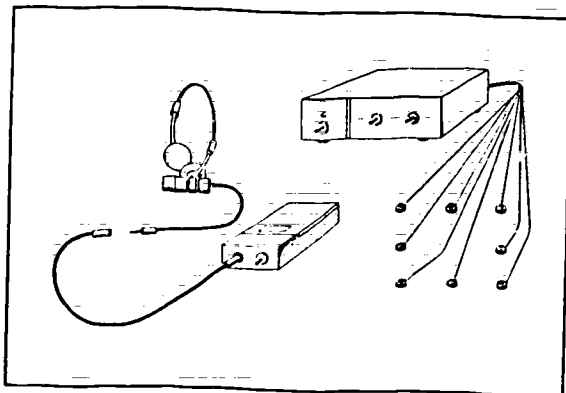




**Product Name:** Kurzweil Voicesystem  
**Vendor:** Kurzweil Applied Intelligences  
**Computer:** All (Hardware Independent)  
**Cost:** \$6500.00

Voicesystem is a device that allows spoken words and phrases to serve as input to a computer. Voicesystem can recognize up to 1000 user-programmable utterances, each of which can be up to several seconds long. Different users can store different vocabularies.

Voicesystem can be hooked to many computers through an RS-232 serial port. Software is available to allow the user to define Voicesystem's input as keyboard input in order to allow standard software to be run transparently. Contact the manufacturer for details.



**Product Name:** Lite Touch  
**Vendor:** Lovejoy Electronics  
**Computer:** Apple II family, Commodore 64,  
IBM PC family  
**Cost:** \$695.00

Lite Touch is a light activated joystick emulator. Four sensors are attached to the frame of the computer screen, one to each side. In addition, up to four more sensors may be placed at the corners. The user wears an optical pointer attached to the head, or some other part of the body. The pointer is directed at the first four sensors in order to emulate the four directions of movement of a joystick. The additional sensors each act as the "fire" button. The sensors plug into an external receiving unit, which in turn plugs into the computer's joystick (or game) input port.

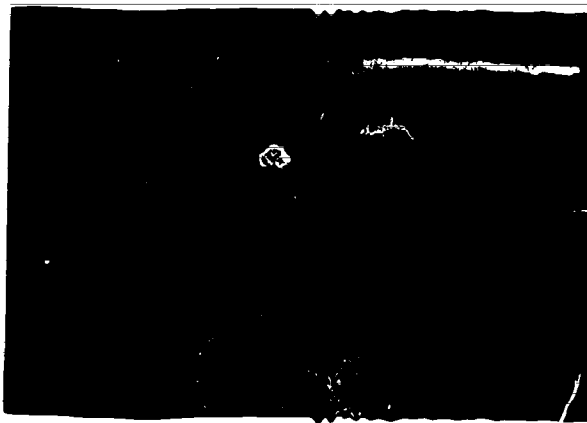
Lite Touch can be used to run any program, game, etc. that uses a switch-type joystick for input. An option for emulating proportional joysticks is in development. Lenses of different focal lengths are available for the pointer. A word processing program that uses joystick input, called Joywriter, is available (see entry, Green Software). The four sensors have mini-plugs attached, and two of them may be used as dual switch input via the Adaptive Firmware Card or the PC AID (see entries, Adaptive Peripherals and Designing Aids for Disabled Adults).



**Product Name:** Mind Master  
**Vendor:** Behavioral Engineering  
**Computer:** Apple II family  
**Cost:** \$124.95

The Mind Master is an alternate game paddle input device for the Apple II that measures small changes in the electrical conductivity of the user's skin (GSR) and translates the fluctuation into a signal like that of the normal game paddle. No movement is required by the user who simply rests two fingers of one hand on two electrodes of the sensor unit. Programs running on the Apple II are controlled by the user's skin responses to brain activity. (Similar to the way one measure on a lie detector works.)

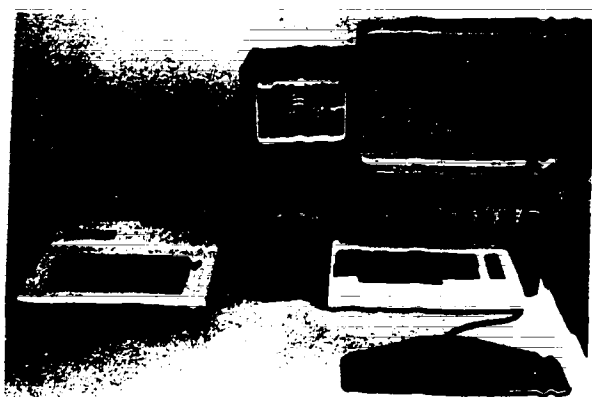
The Mind Master plugs into the Apple game port with no modification. Wraps are included to provide the option of attaching the Mind Master to the fingertips. Game paddle button must be controlled separately if required by a game.



**Product Name:** Mini Keyboard  
**Vendor:** TASH, Inc.  
**Computer:** Apple IIe  
**Cost:** \$204.00

Mini Keyboard is a small size keyboard with closely spaced keys. A small probe with a conductive tip is used to select keys; almost no force is required. If used with the Adaptive Firmware Card (Adaptive Peripherals), all keys on Mini Keyboard can be redefined to enter desired characters, words, or phrases: up to 128 messages can be stored and retrieved. Key response time will also be variable, and SHIFT and CONTROL keys will latch. If used with Keyscan II and Keyboard Interface for the Apple IIe (TASH, Inc.), Mini Keyboard offers variable key response time, audio feedback, indicator lights for CONTROL and SHIFT latching, entry of eight common commands with two keystrokes, adjustable auto-repeat, and a key layout that positions the most commonly used keys at the front and center.

Mini Keyboard must be used with one of the above adaptive systems. Not all Apple IIe software will run if the Adaptive Firmware Card is used.



**Product Name:** MOD Keyboard System

**Vendor:** TASH, Inc.

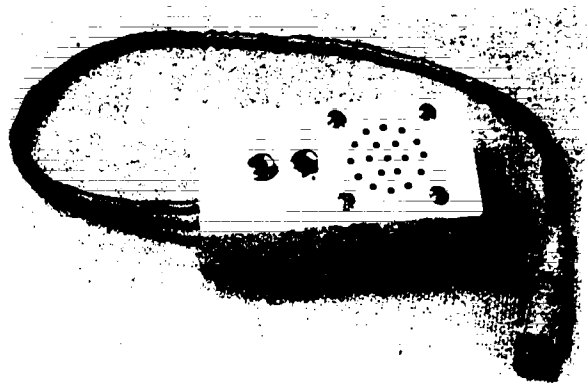
**Computer:** Apple II+, Apple IIe, Commodore 64,  
IBM PC family

**Cost:** \$205.00

The MOD Keyboard System is a scanning alternate computer input system incorporating a Commodore VIC-20 computer and a color video monitor. Keyboard display pages are shown on the VIC-20's video monitor, and the user makes selections by scanning with a three, four, or five position switch. These pages, which can be defined and edited by the user, are used to compose segments of text. Once composed, these segments of text, up to three lines long, are sent on to another computer as keyboard input. Individual keyboard pages can consist of characters, words, phrases, commands, or any combination of these. Up to 30 custom keyboard display pages can be stored on each Commodore cartridge.

The MOD Keyboard System's text editing system can also be used to create messages up to 18 lines long, which can then be printed or spoken directly with a printer or speech synthesizer (extra). An educational version, in which an instructor would create the keyboard pages, is also available. Various interfaces and cables are necessary in order to use MOD for computer input. Contact the manufacturer for details of interfaces and peripherals.

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**Product Name:** Morse-Code Based Keyboard  
Emulator

**Vendor:** Words+, Inc.

**Computer:** IBM PC family

**Cost:** \$395.00

Morse Code Based Keyboard Emulator is a hardware and software system that allows Morse code to serve as keyboard input. The user enters Morse code on a switch connected to the emulator, and the emulator sends the Morse characters to the computer as if they were characters entered on a standard keyboard.

A standard keyboard can be in operation simultaneously with the Keyboard Emulator. Audio feedback is included.



**Product Name:** Mouth Operated Controller for Quads

**Vendor:** KY Enterprises/Custom Computer Solutions

**Computer:** Apple II family, Atari, Commodore

**Cost:** \$50.00

Mouth Operated Controller for Quads is an alternative joystick. The user moves a lever with his tongue in order to execute joystick movements and sips and puffs on a tube in order to operate the fire, reset, and game select buttons. The system functions as a directional control that keeps rate constant and can change direction.

The system is fully compatible with the Atari computers; some modifications must be made for some of the other computers. These can be done by KY Enterprises for the cost of postage, or KY Enterprises will send instructions. Contact manufacturer for further information.



**Product Name:** PC AID

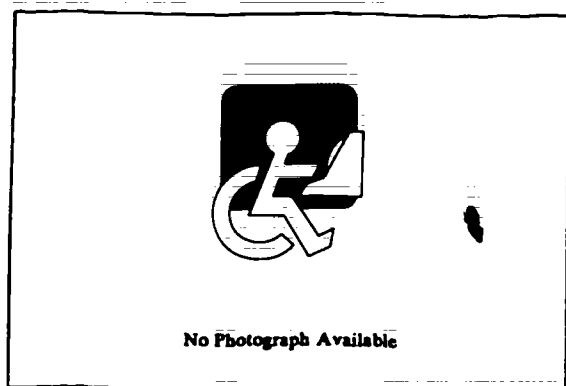
**Vendor:** Designing Aids for Disabled Adults

**Computer:** IBM PC AT, IBM PC family

**Cost:** \$150.00

PC A.I.D. is a device that allows various alternative methods of input to be used with the IBM-PC. The techniques that can be used include scanning, single and dual switch morse code, and assisted keyboard operation. PC A.I.D. provides customized scanning arrays, on-line help screens, and allows redefinition of Morse code and redefinition of keys on the keyboard, including one-finger use of keyboard.

PC A.I.D. plugs into the computer's parallel port; a similar aid for use with the serial port is the PC Serial A.I.D. (see entry, same manufacturer). The device normally plugged into the parallel port can be plugged into the back of the PC A.I.D. PC A.I.D. will run transparently with most software.



**Product Name:** PC Reader

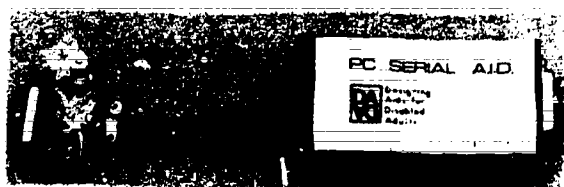
**Vendor:** Maryland Computer Services, Inc.

**Computer:** IBM PC family

**Cost:** \$2,995.00

PC Reader is a device which uses optical character recognition to scan a printed text, identify the characters, and transfer them to the computer as a text file in electronic form. Once the text is in the computer, the user may format it, print it, have it spoken via a speech synthesizer, and so forth as a regular text file. PC Reader can read pages from 3.5" x 3.5" to 8.5" x 14", and can read a variety of standard types in 10 or 12 characters per inch or proportional spacing. Pages must be fed in one at a time, and the system can scan a single page in 25 seconds.

Contact the manufacturer about which type styles and sizes can be read.



**Product Name:** PC Serial AID

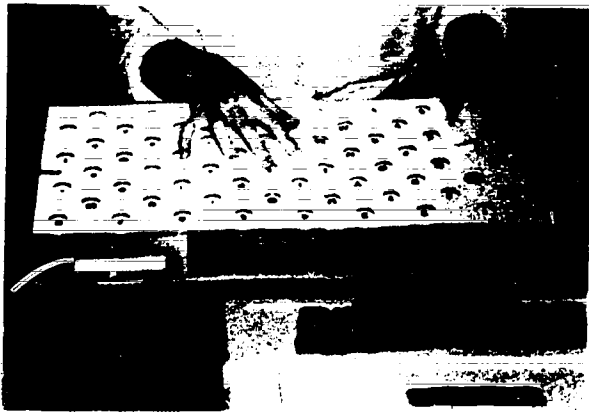
**Vendor:** Designing Aids for Disabled Adults

**Computer:** IBM PC AT, IBM PC family

**Cost:** \$250.00

PC Serial AID is a device that allows various alternative methods of input to be used with the IBM-PC. The methods of input are scanning, single and dual switch morse code, assisted keyboard, alternative keyboard input (maximum size 8 x 16 keys), and multiple switch input. PC Serial AID provides customized scanning arrays, on-line help screens, and allows redefinition of morse code and redefinition of keys on the standard keyboard, including adaptations for one-handed operation of keyboard.

PC Serial AID plugs into the computer's serial port, and is compatible with most software. A similar device for use with parallel ports is the PC AID. (see entry, same manufacturer).



**Product Name:** Pressure Sensitive Expanded Keyboard

**Vendor:** Cacti Computer Services

**Computer:** Apple II family, Commodore 64

**Cost:** See below

Pressure Sensitive Expanded Keyboard is a large membrane keyboard provided with programming, overlays, and a keycap. The Pressure Sensitive Expanded Keyboard is a complete, ready to boot.

Two versions of the keyboard are available: the first, based on the Unicorn Expanded Keyboard, is more expensive (\$700.00) but will operate with all software; this model is available for the Apple II+, and Commodore PET/CBM. The second, based on the KeyPort, is less expensive (\$300.00) and is available for the Apple IIe, IIc, and Commodore C-64, but will not work with all programs.

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**Product Name:** Pronounce

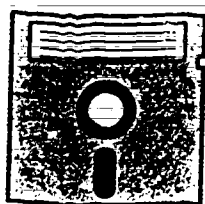
**Vendor:** Microphonics Technology Corporation

**Computer:** IBM PC family

**Cost:** \$695.00

Pronounce is a voice input system for the IBM-PC consisting of a microphone, a circuit card, and special software. Pronounce will learn a word or phrase after having been exposed to it only once. The user can then define the utterances he has stored as commands for any standard software. Up to 128 utterances of 0.5 to 2 seconds' duration can be stored in a single vocabulary, and the number of vocabularies possible is limited only by available memory of computer. Utterances of several words can also be interlinked. Commands triggered by Pronounce can be up to 255 keystrokes long.

Pronounce requires 68K of RAM to operate, and works with most MS-DOS and PC-DOS software products. Contact manufacturer regarding compatibility of specific software.



**Product Name:** Puffin Morse Code Entry System

**Vendor:** Regensis

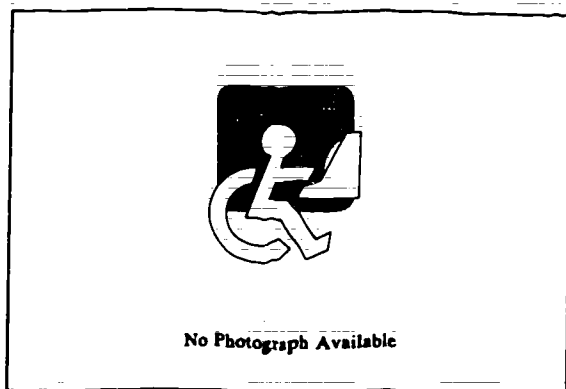
**Computer:** IBM PC family

**Manual Form:** Electronic

**Cost:** See below

Puffin Morse Code Entry System is an easy set of Morse Code that allows the user to emulate all the IBM keys. User adjustable input rate of 1 to 40 words per minute is possible. An on-line manual, pop-up help screen, and auto reconfiguration are provided.

The system requires an IBM PC or XT or compatible with a minimum of 256K of memory, a game port, and two switches. Program is available for cost of disk; a \$10 donation for handling and shipping is encouraged. Contact manufacturer for additional information.



**Product Name:** quadLynx Trackball

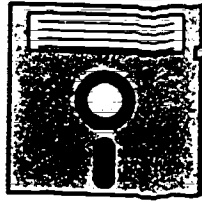
**Vendor:** Honeywell Disc Instruments Subsidiary

**Computer:** Apple Macintosh

**Cost:** \$129.00

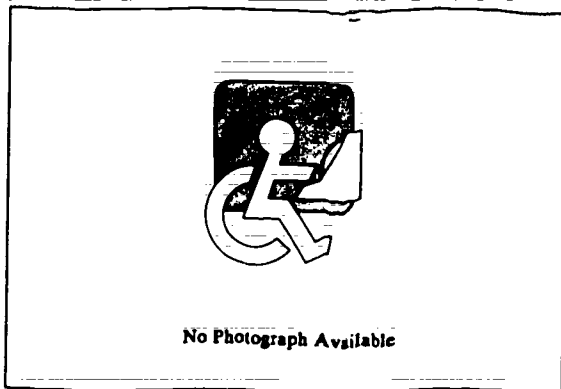
The quadLynx Trackball plugs directly into the mouse port of the Macintosh and handles all software just as the mouse would. The trackball is set in a stationary base, and is designed for precise cursor manipulation, versatility and ease-of-use. Because its construction eliminates dust accumulation, reliability is increased.





**Product Name:** QuickWord  
**Vendor:** EnterSet, Inc.  
**Computer:** Apple Macintosh  
**Manual Form:** Printed  
**Cost:** \$59.00

QuickWord is an abbreviation expansion program for the Apple Macintosh computer. QuickWord allows the user to create custom abbreviations for frequently-used words, phrases, or formulas. Abbreviations are expanded automatically as they are typed on the keyboard. Expansion tables may be edited while the user is working in another program. Multiple expansion tables may be created and used from within any application. All expansion tables may be saved to and loaded from a different disk drive than the working one. QuickWord comes with its own built-in text editor for maintaining abbreviation tables. All standard Macintosh OPTION, SHIFT-OPTION, and COMMAND character keys may be incorporated into QuickWord abbreviations. Abbreviations can be no longer than 4 characters.



**Product Name:** Ready Reader  
**Vendor:** Maryland Computer Services, Inc.  
**Computer:** All (Hardware Independent)  
**Cost:** \$11,500.00

Ready Reader is a device which uses optical character recognition to scan a printed text, identify the characters, and then transfer these characters to a computer as a text file in electronic form. Once the text is in a computer, the user may format it, print it, and so forth as a regular text file. Ready Reader is a large unit designed to feed and process batches of pages.

Contact the manufacturer about which styles and sizes of type can be scanned, and which computers are compatible with the system.





**Product Name:** Remote Keyboard for the Apple II+ and IIe

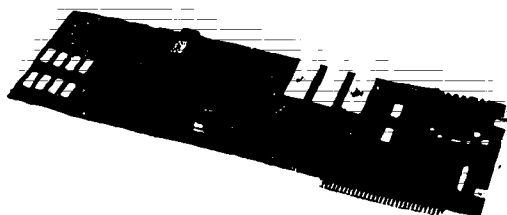
**Vendor:** EKEG Electronics Company LTD

**Computer:** Apple II family

**Cost:** \$750.00

Remote Keyboards for the Apple II+ and IIe are alternate keyboards for these computers that are modified to allow operation with one hand, stylus, headstick, or mouthstick. Size and layout of keys are exactly the same as the standard Apple keyboards, but several features have been added. SHIFT and CONTROL keys are latching, repeat time is adjustable for the II+ version, and can be extended up to 5 seconds, and a special joystick that can be operated by headstick or mouthstick has been added, allowing the user access to graphics programs that require a joystick.

Remote Keyboards for the Apple II+ and IIe send the same output to the computer as their standard counterparts, and plug into the keyboard and game paddle sockets. They are mounted on brackets that allow raising, lowering, and tilting.



NEC SAR-10 VOICE PLUS

**Product Name:** SAR-10 Voice Plus

**Vendor:** NEC America, Inc.

**Computer:** IBM PC family

**Cost:** \$599.00

The SAR-10 Voice Plus is a voice recognition and audio-response board for the IBM-PC that allows voice to be used as input. The SAR-10 can be trained to recognize utterances of 0.2 to 2 seconds in duration. The user assigns each trained utterance a value, a string of ASCII characters. When a trained word or phrase is spoken into a microphone connected to the SAR-10, the assigned ASCII characters are sent to the computer as transparent keyboard input. Up to 250 words of vocabulary can be stored in the card's memory. The SAR-10 Voice Plus can also digitize, store, and play back spoken words and phrases.

The SAR-10 Voice Plus comes with built-in software to help with assigning and programming voice input and output (including the assignment of macros). A floppy disk with some additional programming software is also provided. A microphone is required to use the SAR-10 for voice input; an external speaker for voice output is optional (both extra).



**Product Name:** Screenkeys

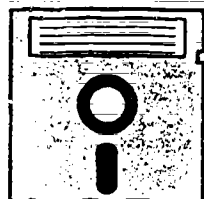
**Vendor:** Wordsr, Inc.

**Computer:** IBM PC family

**Cost:** \$995.00

Screenkeys is a hardware and software package that allows keyboard input to be generated using only head movement. The program creates a graphic image of the computer keyboard on a second monitor. The user wears a headset with an optical sensor device built into it. By directing the sensor toward the screen, the user moves a dot around the keyboard image. By holding the dot on a particular "key" for a certain (adjustable) period of time, the user sends that character to the computer just as if it were standard keyboard input. Activating a SHIFT, ALT or CONTROL key once holds that key for the next character only; activating twice in a row latches that key on until it is released by being activated again. The optical sensor may also be attached to another part of the body if desired.

A second monitor is required to use Screenkeys. The monitor must be either a color computer monitor or a particular type of TV set. Contact the manufacturer.



**Product Name:** Special Inputs Disk

**Vendor:** Washington Research Foundation

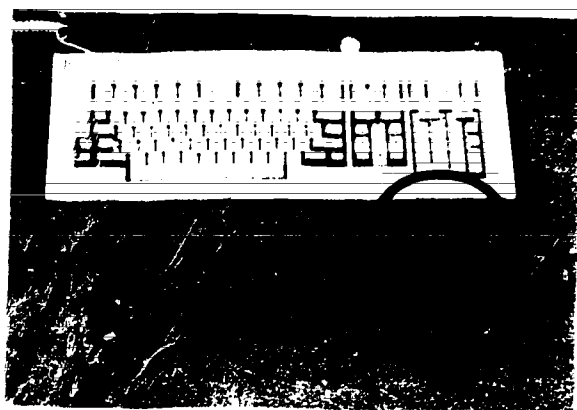
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

The Special Inputs Disk is a software program to allow alternate input methods, similar to the function of the Adaptive Firmware Card (see separate entry) for some software. The Special Inputs Disk offers several alternatives to standard keyboard input. These alternatives include single switch scanning (automatic and manual), Morse Code with one or two switches, and assisted keyboard (standard keyboard with switches substituted for the SHIFT and CONTROL keys). Each alternate input method includes every symbol and function of the standard keyboard as well as a repeat function. Many commercially available software programs are accessible with the alternate inputs in the Special Inputs Disk, although some modifications may be required.

Special inputs can be controlled in several different ways: game paddle buttons, Apple keys on Apple IIe or IIc, or other switches. Adapters are available to adapt most switches for the Apple; contact manufacturer for further information.



**Product Name:** Speech Recognition Keyboard

**Vendor:** Key Tronic

**Computer:** IBM PC family

**Cost:** \$995.00

Speech Recognition Keyboard is a standard IBM-PC-compatible keyboard that also provides the option of entering characters or commands by speaking into a microphone. Speech Recognition Keyboard plugs in exactly like a standard IBM-PC keyboard, and spoken input is accepted by the computer as equivalent to regular keyboard input. Maximum vocabulary is 160 words or phrases, and maximum length for each utterance is 125 sec. Vocabulary and speech recognition can be customized to accommodate the individual user.

Headset with microphone, an external (foot) switch, and vocabulary management software are all provided with the keyboard.

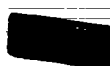
**Product Name:** SR-100 Voice Input Terminal

**Vendor:** NEC America, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$2000.00

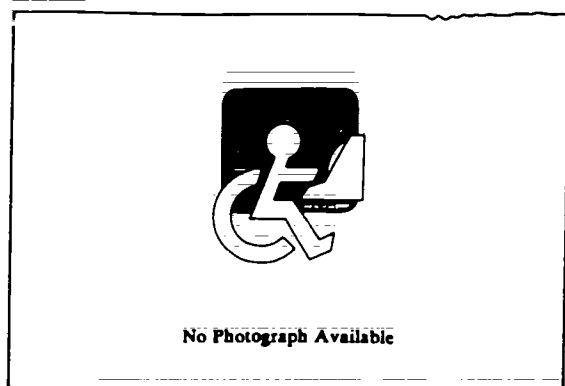
NEC



TEP-175

The SR-100 Voice Input Terminal is an external unit that recognizes speech input, assigns user-programmed strings of characters to the recognized words and phrases, and sends these triggered responses to a host computer. The SR-100 can operate in a normal or a high speed input mode. In the normal mode, the maximum vocabulary is 120 words; in the high speed mode it is 10 words. The SR-100 can be trained to recognize a word after one exposure to the word (pass). Two passes are required to train for the high speed mode. Maximum length of an utterance is 2.0 seconds for the normal mode, 4.0 seconds for the high speed mode.

Output options are RS-232C, CCITT V.24 and V.28, and NEC Astra System.



**Product Name:** TI-Speech  
**Vendor:** Texas Instruments, Inc.  
**Computer:** IBM PC family  
**Cost:** \$1,150.00

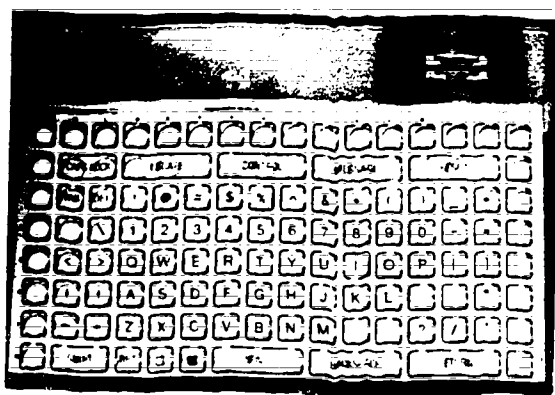
TI-Speech is a hardware and software package that allows voice to serve as input and synthesized voice to serve as output. The user trains the system to recognize certain short utterances. These utterances can then be programmed to trigger certain characters or commands as input to the computer. Synthesized speech can also be programmed to serve as output from an applications program; for instance a verbal prompt may be automatically given at a particular point in a program. The hardware consists of a circuit card, a microphone, and a speaker; the software consists of a programming guide, a vocabulary management program, and a program that allows characters to be entered as on the standard keyboard.

Two optional packages are also available (extra): TI-Speech Phone Manager, which allows TI-Speech's capabilities to be used in telecommunication; and TI-Speech Application Toolkit, which helps develop further applications, including text-to-speech.



**Product Name:** Tongue Controller  
**Vendor:** KY Enterprises/Custom Computer Solutions  
**Computer:** Apple II family, Atari, Commodore 64, NEC  
**Cost:** \$40.00

Tongue controller is a modified telephone touch pad which includes four directional switches to control screen movement, and action, reset, and select switches. The Tongue Controller connects to the computer with a 9-pin DIN jack, and requires an activation pressure of 0.5 oz. to trigger the switch.



**Product Name:** Unicorn Expanded Keyboard

**Vendor:** Unicorn Engineering Company

**Computer:** Apple II+, Apple IIe, Apple II family

**Cost:** \$295.00 - \$350.00

Unicorn Expanded Keyboard is a programmable membrane keyboard with 128 touch-sensitive areas ("keys"). Any key or group of keys can be defined by the user to represent any string of characters up to 40 characters long. Custom keyboard layouts can be stored on disk and used when desired. Custom overlays may be created for each layout. Each key area is 0.8" square, and the keys are spaced at 1.25" center-to-center. A time delay requires that a key be pressed for a certain (adjustable) amount of time before activation. Instructions contain step-by-step procedures for creating custom layouts.

An Adaptive Firmware Card is required to use the Unicorn with standard software (see entry). Ten overlays with transparent sheet covers are provided; others are available. A keyguard is also available from manufacturer; contact for details. Price difference reflects added features; \$350.00 is for a unit with a 16 foot cable.



**Product Name:** VocaLink CSRB-LC

**Vendor:** Interstate Voice Products

**Computer:** IBM PC family

**Cost:** \$1,250.00

The VocaLink Connected Speech Recognition Board (CSRB) is a voice recognition device for the IBM-PC. The CSRB allows the user to define up to 240 words or commands for operation of standard software. The CSRB must be "trained" to recognize the user's voice pattern for each word or command used, but once trained, the device recognizes vocabulary with 99% accuracy. The CSRB does not occupy any of the computer's available memory while operating. The keyboard remains active while the CSRB is in use, and may be used at any time. Software is provided to help the user create vocabularies. Starter vocabularies are also provided for some popular applications programs.

An optional voice output device is available for use in conjunction with the CSRB. Contact the manufacturer for details.



**Product Name:** VocaLink Series 4000

**Vendor:** Interstate Voice Products

**Computer:** DEC, IBM PC family

**Cost:** \$5,200.00

VocaLink Series 4000 is a voice recognition system designed to provide voice input to a computer. The user trains the system to recognize certain spoken utterances (from 1.0 to 2.0 seconds long), and to associate them with characters or strings of characters. These characters can then be sent to a computer as input. The Series 4000 will accept continuous speech; unnatural pauses between words are not necessary. Up to 100 words or phrases can be stored in the system's memory at a time, and any number of vocabularies for different users or different applications may be stored on cartridges and loaded when needed. Software is provided to help the user train the system and create and manage vocabularies. Programming of the system is done by connecting it to an IBM-PC or compatible computer.

The VocaLink Series 4000 is an external unit, and will work with various computers. The system sends a stream of ASCII characters, and can work with any computer accepting such input via an RS-232 port. A headset with microphone is provided. A more extensive software package for vocabulary management, the Voice Planner, is also available (extra).



**Product Name:** VocaLink SYS300

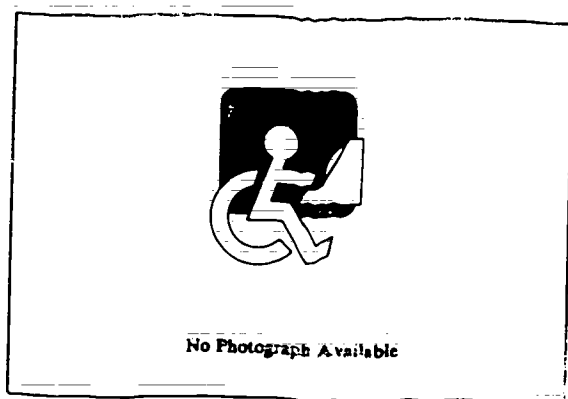
**Vendor:** Interstate Voice Products

**Computer:** Terminal

**Cost:** \$1,495.00

VocaLink SYS300 is a voice recognition system designed for voice input in conjunction with a data terminal. The user trains the system to recognize certain spoken utterances (up to 125 seconds long). The user programs each utterance to send a particular character or string of characters to the terminal and/or to the host computer system. Up to 200 words of vocabulary may be in use at one time. Extra vocabularies for different speakers or different applications may be stored on the host computer and then downloaded to the SYS300 when needed.

The SYS300 can operate either in half duplex mode, where characters coming from the SYS300 are sent to the host computer and to the terminal separately; or in full duplex mode, where the characters sent to the host are routed from there back to the terminal display. Contact the manufacturer about which systems the SYS300 can be used in conjunction with.



**Product Name:** VocaLink VRT300

**Vendor:** Interstate Voice Products

**Computer:** Terminal

**Cost:** \$1010.00

VocaLink VRT300 is a voice input system for use with data terminals. The user trains the system to recognize certain spoken utterances and to associate each one with a character or string of characters. When the user speaks a trained phrase into a microphone, the programmed characters are sent to the terminal and/or the host computer system as keyboard input.

The specifications of the VRT300 are similar to the VocaLink SYS300 (see entry, Interstate Voice Products). The difference is that the SYS300 is an external unit, while the VRT300 is an internal circuit card designed to plug into particular models of data terminals. Compatible models include the DEC VT100, the C. Itoh CIT 101, and the Plessey PT 100-B terminals. Like the SYS300, the VRT300 can operate in either full or half duplex mode.



**Product Name:** Voice Card

**Vendor:** Votan

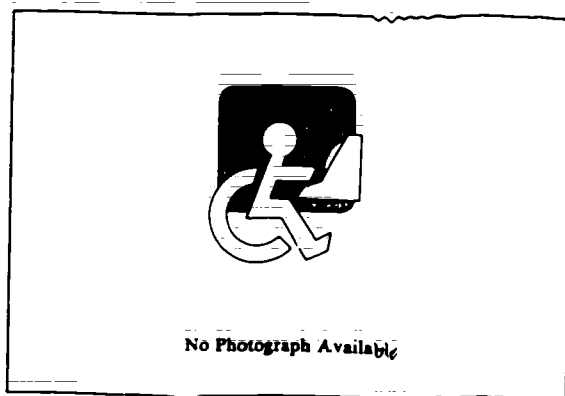
**Computer:** IBM PC Family

**Cost:** \$1200.00 - \$2700.00

The Voice Card is a plug-in circuit card for the IBM-PC and compatibles that provides the capability to enter data and commands by voice. Utterances of more than one word can be recognized when spoken continuously (without pauses). The card's memory can store up to 300 continuous voice templates and up to 425 isolated (one-word) voice templates. Additional templates can be stored in the computer's memory and retrieved when needed. The computer's keyboard continues to operate while the Voice Card is engaged. The Voice Card can also digitize, store, and play back speech, so pre-recorded speech output can also be added to programs with the card. Input and output for the Voice card can be transmitted via telephone.

Several software options are available for the Voice Card, including VoiceKey (a program that allows a single utterance to trigger a sequence of up to 80 characters) and a Software Development Toolkit that allows the development of various custom applications, including telephone answering and dialing. (Software is extra, and requires an extra disk drive and 256K RAM to operate.)





**Product Name:** Voice Command System

**Vendor:** Words+, Inc.

**Computer:** IBM PC family

**Cost:** \$995.00

Voice Command System is a voice input plug-in card for IBM-PC computers and compatibles. The system operates by voice input and produces signals that emulate the standard computer keyboard. The system must be trained to recognize individual utterances, but once an utterance has been trained, the user can program the system to send a particular character or string of characters to the computer when that word or phrase is "heard" by the system. The user speaks the words or phrases into a microphone.

The PC-Command software (included) allows the user to create menus for control of computer functions and input of data.



**Product Name:** Voice Communications Option

**Vendor:** IBM Entry System Division

**Computer:** IBM PC AT, IBM PC family

**Cost:** \$1295.00

Voice Communications Option is a system consisting of an adaptive circuit card which allows voice input control, voice output, and phone control with an IBM-PC, AT or XT computer. The system comes with the circuit card, an operating subsystem disk, and a demonstration disk. The operating subsystem allows programs that operate with the Voice Communications Option to be set up and run more easily and to function as a "voice input" option to the keyboard. The demo disk contains hands-on demonstration of various potential uses.

Programs already available for the Voice Communications Option include software to make the IBM-PC function as an answering machine, dial preprogrammed numbers, or speak screen contents. To act as a TDD, the Voice Communications Option can provide speech output over a standard telephone. An authoring system is available for creating programs that use voice command as input.





**Product Name:** Voice Communications System

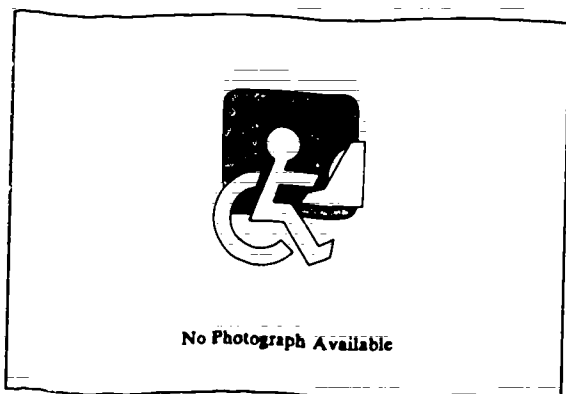
**Vendor:** ITT Information Systems

**Computer:** IBM PC family, ITT

**Cost:** \$1350.00

Voice Communications System is a device that allows spoken words to be used as input to an ITT XTRA computer. The system can be trained to recognize a word spoken by more than one individual. Individual vocabularies can be stored and recalled; each vocabulary can be up to 200 words long. The system also recognizes standard telephone signals for dial tone, busy signal, and ringback, and can treat them as commands. Included with the Voice Communications System software is a program capable of accepting voice commands, recognizing them, and matching them with a pre-defined sequence of keystrokes. Once these are assigned appropriately, standard software will run transparently.

The system consists of an internal circuit card, and options: a microphone/speaker pod, headset, and a program (ITT Voice Executive) that offers an appointment calendar with built-in reminder, telephone directory with auto-dial, and telephone answering and message taking. System options can recognize standard telephone signals for dial tone, busy signal, and ringback, and can treat them as commands to allow optional call answering.



**Product Name:** Voice Driver

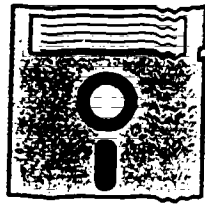
**Vendor:** Voice Recognition Systems

**Computer:** Apple II family, IBM PC family

**Cost:** \$995.00 - \$1,395.00

The Voice Driver is a voice input system that allows spoken utterances to serve as input to a computer. Once the system has been trained to recognize an utterance, the user assigns that utterance a string of characters, which are sent to the computer as keyboard input when that word or phrase is spoken into a microphone. The Voice Driver can store up to 80 (or optional 160) utterance-response sets in its 8K (or 16K) memory. Other vocabularies may be stored on disk and retrieved. All versions of the Voice Driver are completely transparent for any software. The keyboard remains active while the Voice Driver is in use, and may be used simultaneously. The Voice Driver comes with its own microphone.

Options include an FM wireless microphone and software written specifically for the voice driver. Contact the manufacturer for more information. Systems can be upgraded or downgraded for word capacity (80 or 160) by swapping an integrated circuit card. A demonstration/tutorial videotape is also available to interested parties.



**Product Name:** Voice Systems Package

**Vendor:** SRI Distribution, Inc.

**Computer:** IBM PC family

**Manual Form:** Audiotape, Electronic, Printed

**Cost:** \$1,250.00 (software)

The Voice System package is an integrated speech input/output hardware and software package for the IBM-PC. It consists of components for voice recognition from Kurzweil AI, text to speech output from Speech Plus and voiced screen review called Speech DOS from Enable Talking Software. Data may be entered via the voice recognition device, which has user-definable vocabulary up to 1,000 words or phrases for each application. The voice recognizer is a self-contained desktop unit. It operates in transparent mode, allowing it to be used as input to existing applications without modifying application code by translating voice commands automatically into a series of user-defined keyboard inputs. Data is also entered with the keyboard. Speech DOS software translates voice or keyboard input to speech output. The Speech Plus synthesizer converts ASCII text messages to speech in real time, and automatically converts abbreviations, numbers and symbols. The entire system sells for \$11,350.00. Software alone is \$1,250.00. An adaptation of this systems package without voice recognition is available, as the Enable Reader Speech Professional System; contact SRI for details.



No Photograph Available

**Product Name:** Voicescribe-1000

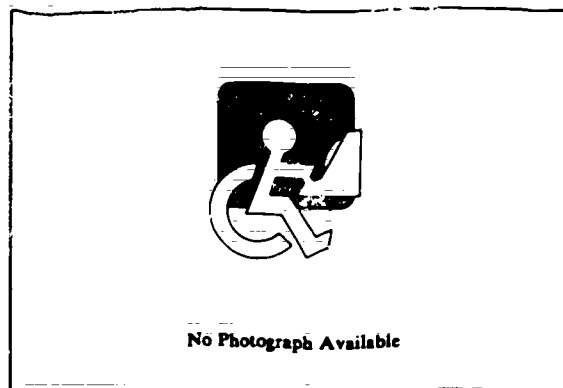
**Vendor:** Dragon Systems, Inc.

**Computer:** IBM PC AT, IBM PC family

**Cost:** \$995.00

Voicescribe-1000 is a voice input system with a potential 1000-word vocabulary. The user trains the system to recognize certain utterances (short words or phrases), and associates these utterances with particular input to the computer. When the user speaks a trained utterance into a microphone, the programmed character or string of characters is sent to the computer.

Voicescribe-1000 package consists of an internal circuit card for the IBM-PC, AT (and compatibles), voice recognition software, documentation, and DragonKEY voice activated keyboard utility software to interface with most MS-DOS PC software.



**Product Name:** Voicescribe-20000

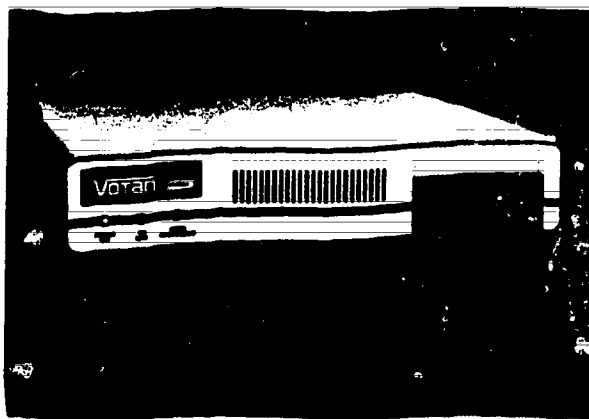
**Vendor:** Dragon Systems, Inc.

**Computer:** IBM PC AT, IBM PC family

**Cost:** See below

Voicescribe-20000 is a voice input system with a potential 20,000-word vocabulary. Initially the system requires a training time of only 30 minutes (rapid enrollment) to recognize utterances. These patterns are then associated with particular characters or strings of characters. The utterance patterns are stored in memory, and when the user speaks a trained word or phrase into a microphone, the programmed input is sent to the computer via RS-232 serial ASCII.

Voicescribe 20000 package consists of an internal circuit card for the IBM PC and compatibles, voice recognition software, documentation, and DragonKEY voice activated utility software. Voicescribe-20000 will not be available until 1987 - contact the manufacturer for final pricing and more information. The cost of the complete system will be under \$10,000.00.



**Product Name:** VTR 6050 Series II

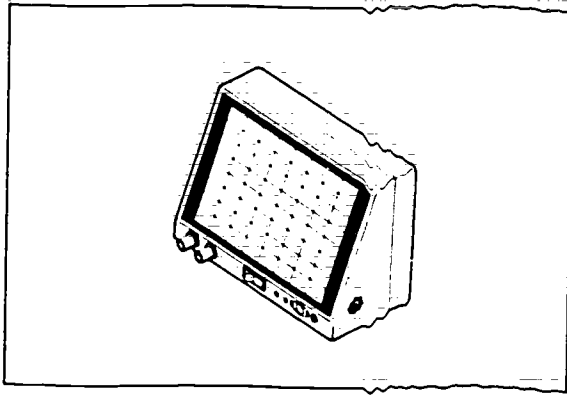
**Vendor:** Votan

**Computer:** All (Hardware Independent)

**Cost:** \$3500.00 - \$4800.00

The VTR 6050 Series II voice terminal is a device that allows voice to be used as input to any computer accepting RS-232 input. The user programs the VTR 6050 unit to associate certain utterances with strings of ASCII characters (up to 30 characters in length). These strings can then be sent to the host computer as RS-232 input. Up to 20 strings can be stored in a buffer before being transmitted. Individual vocabularies of utterances can contain up to 150 words apiece; the number of potential vocabularies is limited only by the amount of memory accessible to the VTR 6050. The VTR 6050 can also accept and execute commands sent from the host computer, and can digitize, store, and play back voice messages. Input and output can be sent via telephone.

The VTR also has a built-in floppy drive for extra vocabulary storage.



**Product Name:** Zygo TETRAscan II

**Vendor:** Zygo Industries, Inc.

**Computer:** Apple II family, Commodore 64,  
IBM PC family

**Cost:** \$2,050.00

Zygo TETRAscan II is an alternate computer keyboard that uses scanning. Each selection area represents a key on a computer keyboard. The user may make selections by a patented\* row-and-column scanning method (single switch), or by directed scanning (multiple switches). Speed and timing of scanning are adjustable. 4K of user-programmable memory allows the user to program information into 156 locations so that selection of a single message area sends a combination of characters to the computer. Audible feedback is provided for each "key" activation.

The cost of TETRAscan depends upon the type of computer interface desired. Some of the connectors include a 7-pin DIN jack for multi-switch, a mini-phone plug for single switch, or two 16-pin flat ribbon connectors for the computer. Complete standard keyboard key selections are available for all computers for which interfaces are available. \* (U.S. Patent no. 4,559,315)

# Chapter 3

## Input Devices Usable with Only Some Software

*This chapter includes devices that can be used with computers but which do not provide transparent access. These input devices are designed to be used in conjunction with other special software rather than being usable as an alternate input with standard software. If a transparent adapter is available for an input device, then it is listed in Chapter 2. Only input devices for which transparent adaptors are not available are placed in this section.*

*Related input and output features found in the cross reference indexes include Speech Recognition (ITS), Pressure Sensitive (ITP), and Light Sensitive/Optical (ITL).*

*Appendix A contains information briefs of interest, including Newsletters and Publications, Associations and Self-Help Groups, Training Programs in Special Education and Technology, etc.*

## Chapter 3: Input Devices Usable with Only Some Software

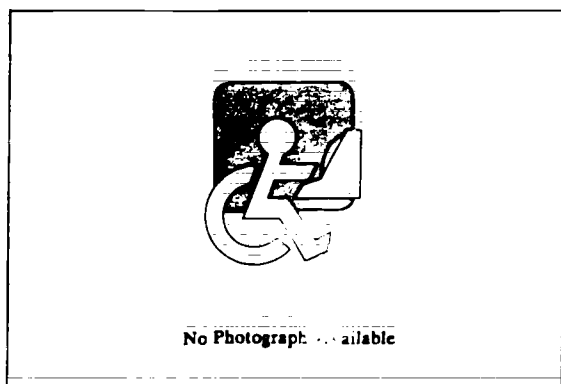
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The following product entries appear in this chapter:

Commodore Light Pen 3-61  
DP-200 Connected Speech Recognizer 3-61  
Gibson Light Pen System 3-62  
KoalaPad 3-62  
Muppet Learning Keys 3-63  
OmniBox 3-63  
PowerPad 3-64  
Ten Key Board 3-64  
Touch Window 3-65  
VS1000 Voice Communications Device 3-65

The following products from other chapters can also be used as Input Devices Usable with Only Some Software:

Voice Master 3-125



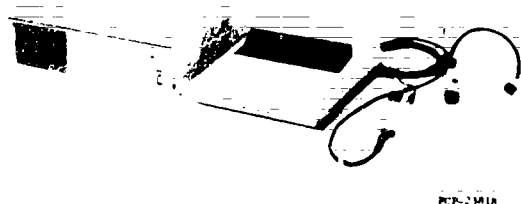
**Product Name:** Commodore Light Pen

**Vendor:** Design Technology

**Computer:** Commodore 64

**Cost:** \$210.00

Commodore Light Pen is a hardware/software package that allows input to the computer by pointing a special pen (included) at a computer screen. A version with a headset for holding the pen includes a software package for creating menus for selecting choices or drawing. If menus are created properly, selection can be done from up to 10 feet away. The Commodore Light Pen plugs into the computer's joystick port.



**Product Name:** DP-200 Connected Speech Recognizer

**Vendor:** NEC America, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$7500.00

The DP-200 Connected Speech Recognizer is an external unit that recognizes speech input, assigns user-programmed strings of characters to the recognized words and phrases, and sends these triggered responses to a host computer. It consists of a speech recognition unit and a terminal unit. The terminal unit has a display where commands appear so that the user can edit them before sending them on to the host computer. The DP-200 can recognize either continuous utterances (no pauses between words) or discrete words (single-word utterances). In either case, the maximum duration of a single utterance is 4.0 seconds, and the entire utterance is used to call up a single selection. The unit is not able to break continuous speech into individual words.

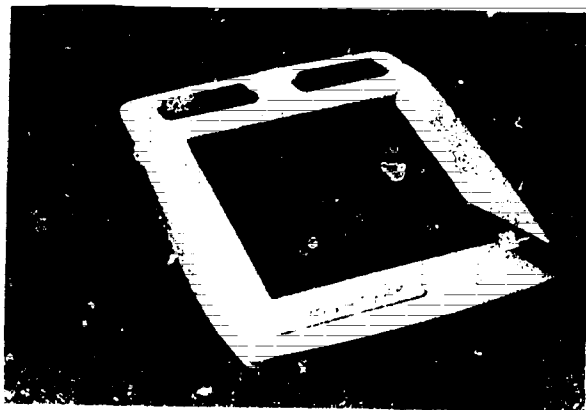
The DP-200 Connected Speech Recognizer package consists of the speech recognizer unit, the terminal unit (which can be operated remotely), a microphone, a remote switch, and the necessary cables. Output interface options included are RS-232C, RS-422, and GPIB. The DP-200 can also be equipped and programmed for audio response. The 50 word vocabulary can be with optional boards. Contact the manufacturer for details.



**Product Name:** Gibson Light Pen System  
**Vendor:** Koala Technologies Corporation  
**Computer:** Apple II family  
**Cost:** \$274.95

Gibson Light Pen System is an alternative input device that allows the user to specify a particular position on a computer's display screen by pointing to it with the light pen. The pen plugs into one Apple I/O slot.

The Gibson Light Pen System package includes five programs for use with the light pen, one of which allows the user to create customized light pen programs. The system will work with any black-and-white or color monitor except those with long persistence green phosphors (check with manufacturer).

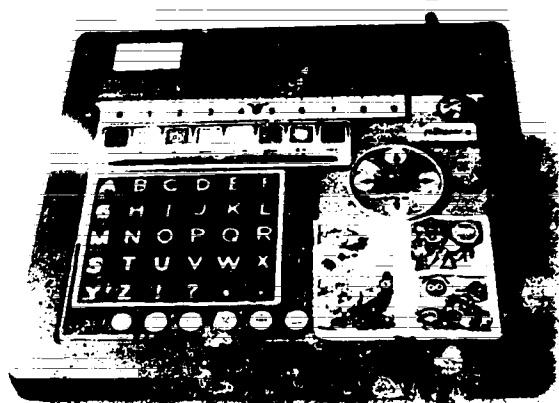


**Product Name:** KoalaPad  
**Vendor:** Koala Technologies Corporation  
**Computer:** Apple IIc, Apple IIe  
**Cost:** \$139.50

KoalaPad is a pressure-sensitive graphics tablet. Used with the proper software, KoalaPad allows the user to select a position on the computer display screen by touching the tablet with a finger or stylus.

KoalaPad comes with two programs: KoalaPainter and Graphics Exhibitor.





**Product Name:** Muppet Learning Keys

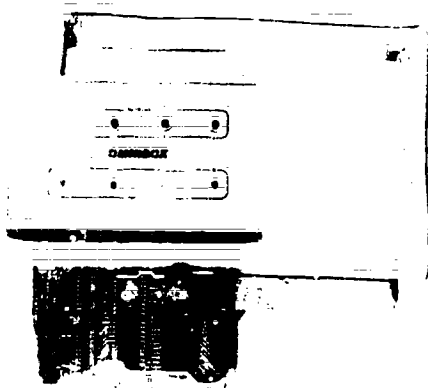
**Vendor:** Sunburst Communications

**Computer:** Apple II family

**Cost:** \$79.95

Muppet Learning Keys is an expanded membrane keyboard for the Apple II's. The keyboard's 83 keys are covered with color cartoons of Jim Henson's Muppets characters illustrating the various functions of the keys.

Muppet Learning Keys is not equivalent to a standard Apple II keyboard but must be used with some program that defines a meaning for each key or group of keys. The program provided with the keyboard uses color animated graphics and music to teach letters, numbers, and colors. Some other programs available which use the Muppet Keys are the PEAL Series (PEAL Software) and the Magic Slate (Sunburst Communications). Contact Sunburst about other programs available or in development.



**Product Name:** Omnibox

**Vendor:** Expert Systems Software, Inc.

**Computer:** Apple II+, Apple IIe

**Cost:** \$249.00

Omnibox is an adaptive device that allows the use of one to four switches and one to four battery-operated devices while also providing input to a Apple II+ or IIe. Omnibox also contains an internal clock (II+ and IIe do not), and is useful for running programs that require control of timing for both switch input and switch output. Omnibox consists of a circuit card that must be installed in the computer and an external box that switch inputs and outputs are plugged into.

Omnibox's external unit connects directly into the peripheral card of the Apple II+ or IIe. Omnibox comes with three training programs: Switchmaster, Toy Assessor, and Toy Scanner (included in price).



**Product Name:** PowerPad

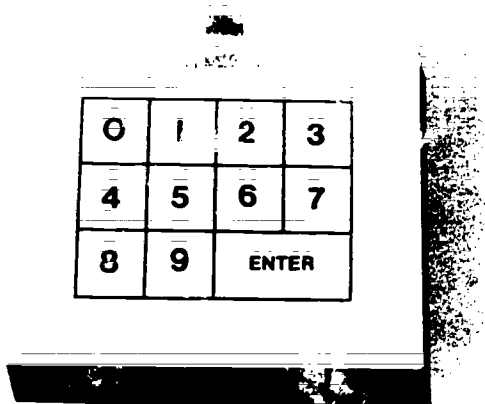
**Vendor:** Dunamis, Inc.

**Computer:** Apple II+, Apple IIe, Atari 400, Atari 800, Commodore 64, IBM PC family, TRS-80 Color, VIC 20

**Cost:** \$99.95

PowerPad is a flexible alternate computer input consisting of a grid of 14400 microswitches covered with a 12" x 12" plastic pad. Depending upon the program used, the surface of the PowerPad can be divided up many ways yielding different sized activation areas. Overlays can then be custom designed to indicate what each "key" on the PowerPad signifies in that program's configuration.

PowerPad connects to the game port of most computers. Many programs have been developed for the PowerPad which are useful for augmentative communication or for rehabilitation training and education. Authoring programs are also available for creating one's own program for the PowerPad. (Contact manufacturer.)



**Product Name:** Ten Key Board

**Vendor:** EKEG Electronics Company LTD

**Computer:** Apple II+, Apple IIe

**Cost:** \$350.00

Ten Key Board is a alternate keyboard for the Apple II+ or IIe computers consisting of ten 2" squares, each of which corresponds to a digit zero through nine, and a larger ENTER key. Ten Key Board is designed for use with the Trace Center's Talking BlissApple program, with which it can be used to accelerate the selection of symbols, by bypassing the scanning otherwise necessary for selection. The Board can also be used with overlays for a child with a maximum Bliss vocabulary of nine symbols. Ten Key Board can also be used with other programs which allow the user to input using the numbers zero through nine.

Ten Key Board plugs into the numeric keypad socket of the IIe and behind the keyboard of the II+. A keyguard for the Board is available (extra).



**Product Name:** Touch Window

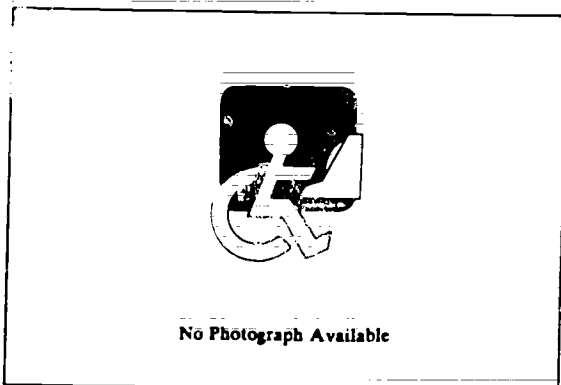
**Vendor:** Personal Touch Corporation

**Computer:** Apple II family, IBM PC family

**Cost:** \$199.95 - \$229.95

Touch Window is a transparent plastic screen that fits over a computer monitor. When Touch Window is used with the right software, touching the screen with finger, stylus, etc. will generate input to the computer. Selection of commands, composition of graphics, and other functions can be performed. Pressure activates only the pixel at the very center of the area touched. Touch Window can be removed from the monitor and used like a graphics tablet.

Software produced by the manufacturer for use with Touch Window includes programs for word processing, spread sheets, management information systems, recreation, education, and writing customized programs. Software has also been written for Touch Window by other companies. Contact the manufacturer for details.



**Product Name:** VS1000 Voice Communications Device

**Vendor:** Sphere Technologies, Inc.

**Computer:** IBM 3270

**Cost:** See below

VS1000 Voice Communications Device is an external voice recognition unit that allows data to be entered by voice on individual terminals connected to an IBM 3270 mainframe computer system. Once the VS1000 is trained to recognize particular utterances, these utterances can be used to trigger a particular input. The VS1000 also allows the user of an individual terminal to change the format of his individual screen so that it shows only the information that user needs to see. This individual formatting will not affect the rest of the mainframe system.

The VS1000 is not designed for use on a personal computer (microcomputer) system, but is meant for use with an individual terminal in a mainframe system. The manufacturer can provide more information on specific applications and cost; however, repeated calls to manufacturer to verify information have not been returned.

# Chapter 4

## Input Adapters for Computers

*This chapter covers special adapters that go between adaptive interfaces (switches, controls, keyboards, etc.) and the standard computer. These adapters have no function in and of themselves except to act as an adapter to allow the interface to be plugged into the computer. Keyboard Emulating interface adapters and Mouse Emulating interface adapters are included in this chapter.*

*Related functions found in the cross reference indexes include Keyboard Emulating Interface (KE) and Switch or Control (S/V).*

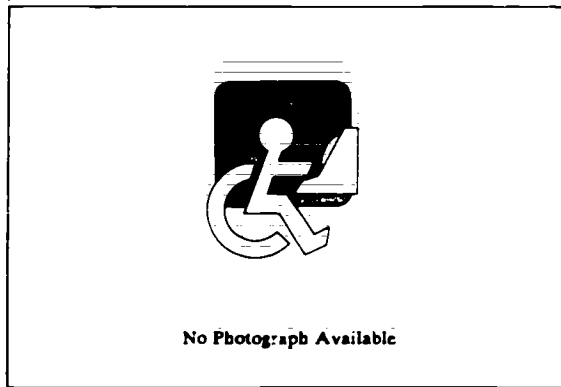
*Appendix A provides a wide variety of resources of interest to disabled computer users such as Newsletters and Publications, Associations and Self-Help Groups, Additional Resources of Information, etc.*

The following products may appear in this chapter:

Apple Adaptor 3-69  
Apple Computer Input Adapter 3-69  
Apple IIe Input Adapter 3-70  
Apple Switch Interface 3-70  
Interface Box for Apple IIe 3-71  
Keyboard Interface for Apple IIe 3-71  
Keyboard Interfaces 3-72  
Keyscan II 3-72  
Multiple Switch Box for the Adaptive  
Firmware Card 3-73  
Paddle Adapple 3-73  
Paddle Panel 3-74  
RSS Joystick Adapter 3-74  
R/S II Series Wireless Link 3-75  
Switch Adapter for Apple IIe and II+  
Computers 3-75  
Switch Interface 3-76  
TV Game-2 3-76  
Wireless Data Transmission System 3-77

The following products from other chapters can also be used as Input Adapters for Computers:

Adaptive Firmware Card 3-24



**Product Name:** Apple Adaptor

**Vendor:** KY Enterprises/Custom Computer Solutions

**Computer:** Apple II family

**Cost:** \$15.00

Apple Adaptor is a device that allows Atari-compatible joysticks to be used on Apple II+, 3, IIc and IIc computers.



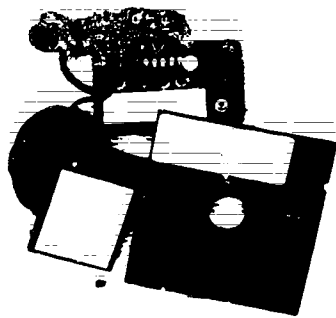
**Product Name:** Apple Computer Input Adapter

**Vendor:** Steven E. Kanor, Ph.D., Inc.

**Computer:** Apple II family

**Cost:** \$40.00

Apple Computer Input Adapter is an adapter which allows special single or dual switches to be used with appropriate software. The Adapter accepts one or two switches and connects to the I/O port of an Apple computer.



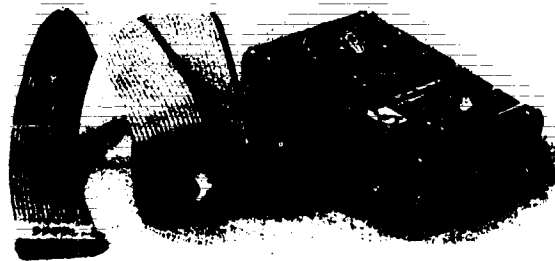
**Product Name:** Apple IIe Input Adapter

**Vendor:** Life Science Associates

**Computer:** Apple IIe

**Cost:** \$89.00

The Apple IIe Input Adapter plugs into the Apple game port and accepts input from a single switch. Any single switch with a mini or micro-phone plug may be used with the Apple IIe Input Adapter. The Adapter can accept 1 - 3 different inputs. Sample applications are included on diskette.



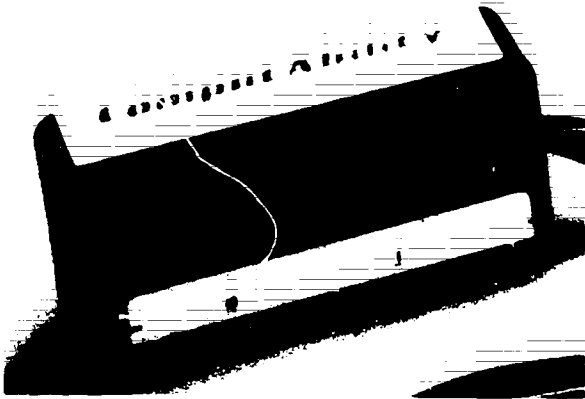
**Product Name:** Apple Switch Interface

**Vendor:** Prentke Romich Company

**Computer:** Apple II family

**Cost:** \$43.00 - \$89.00

Apple Switch Interface is an adapter that allows any single switch to be used in place of the pushbutton on a joystick or game paddle. This interface allows those who cannot press the buttons on a joystick (or game paddle) to use joystick/paddle-operated software.



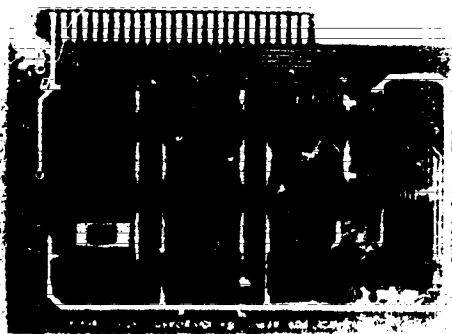
**Product Name:** Interface Box for Apple IIe

**Vendor:** ComputAbility Corporation

**Computer:** Apple II family

**Cost:** \$35.00

The Interface Box for the Apple IIe allows input to be made to the computer by one or two switches. It plugs into the game port of the Apple IIe with a 16 pin connector and allows use of any switches with mini-phone plugs.



**Product Name:** Keyboard Interface for Apple IIe

**Vendor:** TASH, Inc.

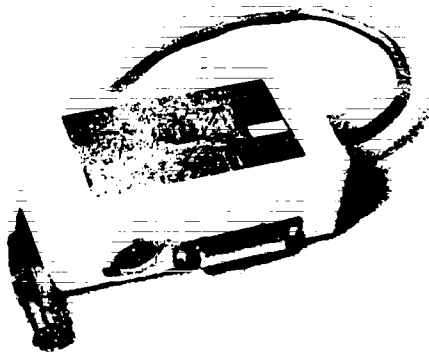
**Computer:** Apple IIe

**Cost:** \$182.50

Keyboard Interface for Apple IIe is an internal circuit card used to interface certain alternate keyboards with the Apple IIe computer. These keyboards are the Apple King Keyboard, MOD Keyboard System, King Keyboard, and Mini Keyboard (TASH, Inc.). The latter two keyboards require a second special interface unit to be connected as well (extra, see entry for Keyscan II).

This interface unit installs in Slot 1 of the computer.





**Product Name:** Keyboard Interfaces

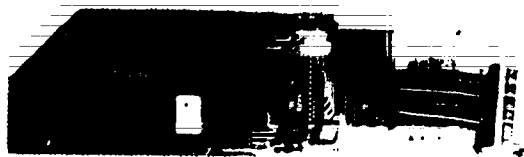
**Vendor:** Prentke Romich Company

**Computer:** Apple II family, IBM PC family

**Cost:** \$275.00 - \$475.00

Keyboard Interfaces are adaptive devices that accept ASCII characters from some input device (such as an electronic communication aid) and translate them into signals that a computer will interpret as key strokes from a standard keyboard (see glossary: keyboard emulating interface). The standard keyboard can remain active while the interface is connected.

Keyboard Interfaces are available for various computers. For information about the compatibility of a particular input device, contact Prentke Romich.



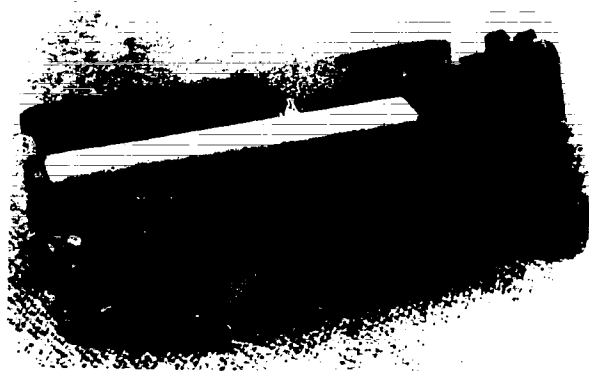
**Product Name:** Keyscan II

**Vendor:** TASH, Inc.

**Computer:** Apple IIe

**Cost:** \$450.00

Keyscan II is an adaptive circuit card that is necessary to connect a Mini Keyboard or a King Keyboard (TASH, Inc.) to an Apple IIe. The keyboard plugs into Keyscan II, and Keyscan II plugs into the Keyboard Interface for the Apple II (TASH, Inc.). The interface plugs into the computer. When the system is so configured, the alternate keyboard will act exactly as a standard keyboard, enabling the user to run all IIe software.



**Product Name:** Multiple Switch Box for the Adaptive Firmware Card

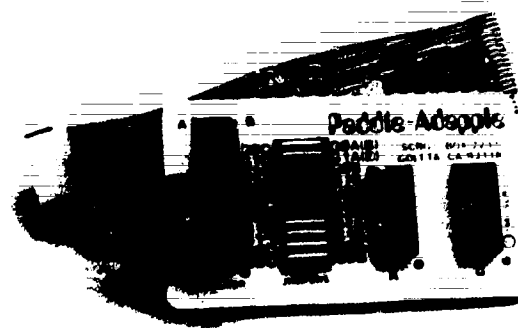
**Vendor:** ComputAbility Corporation

**Computer:** Apple II family

**Cost:** \$99.95

Multiple Switch Box is an adaptive device used with the Adaptive Firmware Card to connect up to eight single switches. Switches can be used to send selected commands to the computer. Four specially designed picture switches are also included with the kit.

This Multiple Switch Box uses an Adaptive Firmware Card (see separate entry, Adaptive Peripherals).



**Product Name:** Paddle Adapple

**Vendor:** ComputAbility Corporation

**Computer:** Apple II family

**Cost:** \$35.00

The Paddle-Adapple is an interface that allows two different types of switches to be attached to the computer at the same time. The switches may then be used at the same time or separately. Contact manufacturer for more information about what types of connectors are used with the Paddle Adapple.



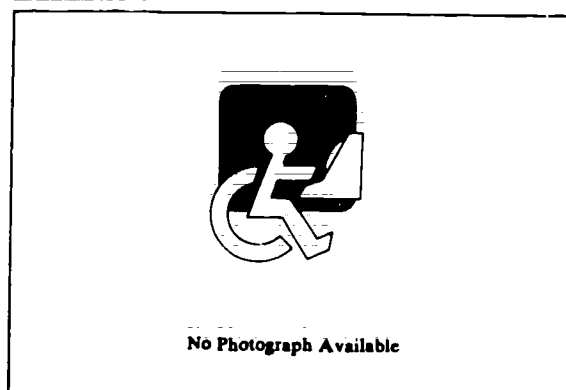
**Product Name:** Paddle Panel

**Vendor:** Psychological Software Services, Inc.

**Computer:** Apple IIc, Apple IIe, Atari,  
IBM PC family

**Cost:** \$40.00

The Paddle Panel is a replacement for handheld gamepaddle devices designed to allow better control as well as bilateral manipulation activities. Paddle Panel has two buttons and two knob controls, and plugs directly into the game I/O port on the back of the computer.



**Product Name:** PSS Joystick Adapter

**Vendor:** Psychological Software Services, Inc.

**Computer:** Apple II+, Apple IIe

**Cost:** \$35.00

PSS Joystick Adapter is an adapter to allow utilization of digital type joysticks with the Apple computer. One flip switch toggles from normal operation to joystick mode.

Regular Apple controllers can be plugged into the Apple IIe with no interference from this device. A Select-A-Port device is recommended for use with an Apple II+; contact Psychological Software Services Inc. for more information.



**Product Name:** R/S II Series Wireless Link

**Vendor:** Communications Applied Technology

**Computer:** All (Hardware Independent)

**Cost:** \$3500.00

The R/S II Series Wireless Link is a system that transmits speech from a remote location to the voice input module of a computer. The user speaks into a microphone connected to a portable transmitter unit, and this transmitter sends the signal via radio wave to a stationary receiver unit connected directly to a computer's voice input module. The R/S II Series can also be equipped with input circuitry to accept audio signals sent back from the computer's voice input module.

The R/S II Series Wireless Link does not actually provide input to a computer, but rather transmits audio to an existing voice input module hooked up to an existing computer. The system has been designed to work with any voice input module. An IBM-PC type expansion board version of the base radio is available. Cost for system includes headset, housing for 10 hour duty cycle, battery pack, charger, base radio, and interconnect cable to recognizer.



**Product Name:** Switch Adapter for Apple IIe and II+ Computers

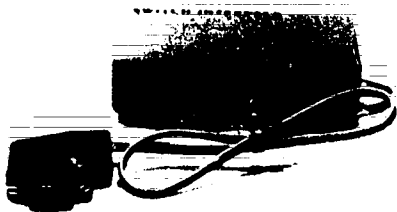
**Vendor:** TASH, Inc.

**Computer:** Apple II+, Apple IIe

**Cost:** \$103.00

Switch Adapter for Apple IIe and II+ Computers is a junction box that accepts input from single, dual, or multiple switches and sends it to the game input of the computer. The Switch Adapter prompts the user to ask what type of switch is being used, and adapts to this switch accordingly. This adapter mounts directly into the game port.

Directions for converting a standard Apple games controller to match the connector on the Adapter are provided.



**Product Name:** Switch Interface

**Vendor:** Developmental Equipment

**Computer:** Apple II family

**Cost:** \$35.00

This Switch Interface adapts an Apple computer so that two switches can be operated with these interfaces. Two models are available: one plugs into the game port on the back of the computer, and the other plugs into the game I/O of the mother board to the computer.



**Product Name:** TV Game-2

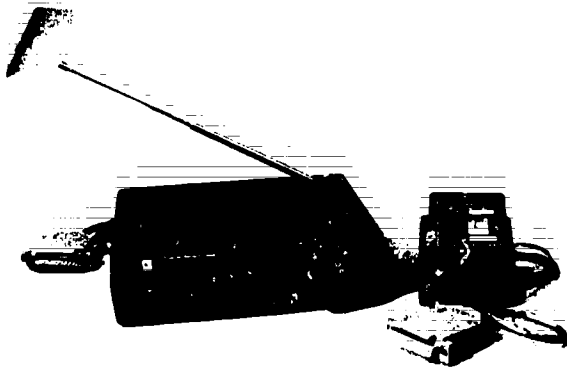
**Vendor:** DU-IT Control Systems Group, Inc.

**Computer:** Atari 2600

**Cost:** \$620.00

TV Game-2 is an adaptive device that allows the user to perform the functions of the Atari 2600 video game control unit using the controls of a DU-IT DLT, DLT-X, or MCB wheelchair-based environmental control system. TV Game-2 allows the user to control the "reset" and "option" features of the Atari unit, and to program transformation parameters, including source and timing rules.

TV Game-2 comes with an Atari 2600.



**Product Name:** Wireless Data Transmission System

**Vendor:** Prentke Romich Company

**Computer:** All (Hardware Independent)

**Cost:** \$599.00

Wireless Data Transmission System is a system, consisting of a portable transmitter and a stationary receiver, that transmits the ASCII output from a portable computer or communication aid to a stationary computer or environmental control system. The small portable transmitter connects to the portable input device (computer or communication aid) and transmits its output via radio waves to a stationary transmitter, which is connected to the stationary computer or environmental control system. The transmitter unit receives its power from the portable input device, and the receiver gets its from the host stationary device.

Various portable input devices and various stationary computers or environmental controls will work with the Wireless Data Transmission System. Contact the manufacturer for information about compatibility.

## Chapter 5

# Alternate Display Systems Usable with All Software

*This chapter covers large print, voice, Braille or other (e.g., Morse) output systems which can be used to supplement or in lieu of the standard computer display. These systems must be usable with all software (or essentially all software) for the computer in order to be included in this chapter. Braille printers could be construed as fitting in this chapter, since hooking them up instead of a printer to a regular computer would cause them to print out Grade I Braille from any printing software. Since they do not provide full access to all software, however, they would be found in Chapter 6, Braille Printers/Tactile Displays Usable with Some Software.*

*Some of the related functions found in the cross reference indexes are Large Print (LP), Screen Display to Voice (SV) and Braille (BR).*

*Appendix A includes information and resource listings on Optical Character Recognition Scanners (an alternate input that is useful to blind persons), Selected Information Resources for Blind and Visually Impaired Individuals, Computer Assessment/Training Programs for Disabled Individuals, and Additional Information Resources.*

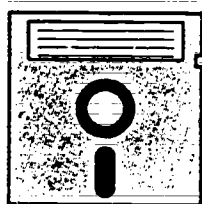
The following product entries appear in this chapter:

Artic Vision 3-81  
AudiBraille Computer 3-81  
Basic Interpreter for the Blind 3-82  
Beamscope II 3-82  
Brailink III 3-83  
Braille Display Processor 3-83  
BraT 3-84  
Compu-Lenz 3-84  
Erable Reader 3-85  
Enhanced PC Talking Program 3-85  
Expand-a-View 3-85  
Freedom 1 3-86  
inLARGE 3-87  
K Talker 3-87  
Keynote 3-88  
Large Print Display Processor 3-88  
LimeLight 3-89  
Lyon Large Print Program 3-89  
Magic Keyboard 3-90  
MagniLink 3-90  
Optacon 3-91  
PC Lens 3-91  
PC Speak 3-92  
PC Vert 3-92  
PC Voice 3-93  
PC-Braille 3-93  
Print-it 3-94  
ProTERM 3-94  
PROVOX 3-95  
SCAT (Screen Articulator) 3-95  
Screen-Talk Pro 3-96  
Soft Vert 3-96  
Talking TermExec 3-97  
Tall Talk Prints 3-97  
Tall Talk Screens 3-98  
Textaiker.Blind and Other Echo Utilities 3-98  
V.P. 3-99  
Vantage 3-99  
Vert Plus 3-100  
Viewscan Text System 3-100  
Vista 3-101  
Words-to-Voice 3-101

The following products from other chapters can also be used as Alternate Display or Output Systems Usable with All Software:

Microbrailier 2400 3-107





**Product Name:** Artic Vision

**Vendor:** Artic Technologies

**Computer:** Apple IIe, IBM PC AT,  
IBM PC family

**Manual Form:** Electronic, Printed

**Cost:** \$395.00

Artic Vision (Articulate Vision) is a software package that processes screen and keyboard output into speech. Two modes of operation are available. In the Ap-Track mode (Application Tracking), much speech output is automatic and follows the application. The Review mode, which can be entered at any time with a single keystroke, allows the screen to be read in a directed fashion. Reading modes include character, word, line, sentence and paragraph. User options can be changed from Review mode at any time.

Ten windows, nine user definable, are used to read portions of the screen upon demand from either Ap-Track or Review. Frequently used functions can be controlled with one hand. Automatic speech clearing allows quick movement around the screen with single keystrokes without listening to unwanted text. An IBM/XT or PC or compatible with 256K memory is the minimal suggested computer configuration.



**Product Name:** AudiBraille Computer

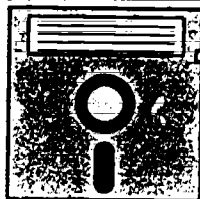
**Vendor:** Triformation Systems, Inc.

**Computer:** Any CP/M Computer

**Cost:** \$6850.00

AudiBraille Computer is a complete microcomputer system with a 24-character LCD display, a 24-character refreshable braille display, and a speech synthesizer for voice output. The computer has 64K of usable memory, and uses the CP/M operating system. Two disk drives, a full keyboard with 17 function keys, 2 RS-232C serial ports, and built-in calculator keypad are provided. Software provided includes a dictionary for adding special pronunciation to the synthesizer's programming, a search mode for locating text, and a "scratch pad" function that allows the user to interrupt any program to take notes.

Options for the AudiBraille Computer include a remote braille keyboard for direct entry of grade 2 braille, a standard monitor, and a remote numeric keypad. The AudiBraille Computer can drive both standard ink and braille printers.



**Product Name:** Basic Interpreter for the Blind

**Vendor:** Schaefer, James S.

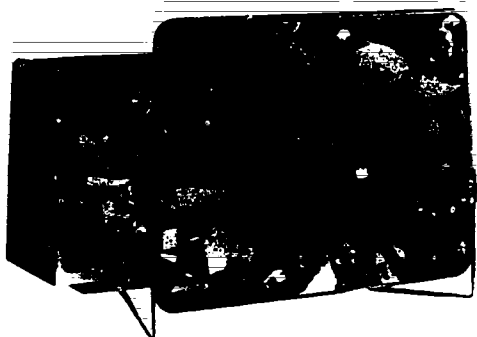
**Computer:** TRS-80 Model I

**Manual Form:** Printed

**Cost:** \$15.00

The Basic Interpreter for the Blind is designed to give verbal commands and prompts to visually impaired or blind computer programmers. The program allows the blind user to proofread, correct, and edit programs "on screen." The Basic Interpreter speaks the commands via a speech synthesizer.

A Radio Shack or Votrax Type 'N' Talk speech synthesizer is required. A version for the IBM is under development; contact manufacturer for details.



**Product Name:** Beamscope II

**Vendor:** International Marketing Services, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$64.90 - \$205.95

Beamscope II is a fresnel lens that will enlarge the characters on a TV screen from two to four times their normal size when placed in front of the TV. Four different models are available to fit three screen sizes. Model TS-25 is designed for 12"-15", enlarging the screen diagonal to 25" (\$64.90). Model TS-30 fits 17"-19" screens, enlarging the diagonal to 30" (\$74.90). TS-41 Deluxe fits 19"-26" screens, enlarging the picture to 41" (\$205.95). The first three models have a metal frame. The Deluxe model has a wood frame. The construction of the fresnel lens is designed to maintain image clarity.

International Marketing Services also manufactures Compu-Lenz, a fresnel lens that has been coupled with a special glare filter, specifically for use with computer monitors. Compu-Lenz (see separate entry) fits the IBM-PC and most other computers with monitors of similar size. Beamscope II has been used with monitors that do not meet those size specifications. Contact manufacturer for details.



**Product Name:** Brailink III

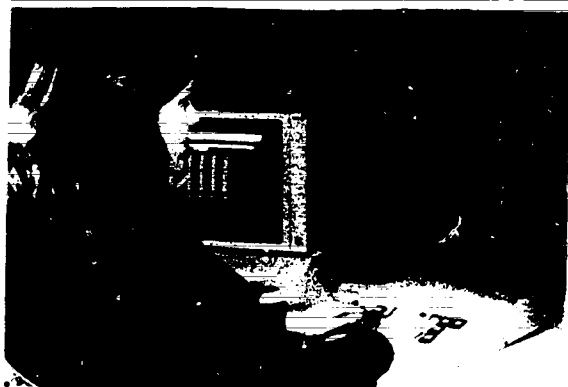
**Vendor:** SABRE Computers International, LTD

**Computer:** Any CP/M Computer

**Cost:** \$8,800.00

Brailink is a braille output computer terminal that produces a dynamic 48 cell braille display. The system operates with either the standard QWERTY or braille shorthand keyboards, and can scan with cursor controls across a full screen 80 columns wide, showing 40 columns (half of a screen line) displayed at one time. The system includes a built-in digital minicassette tape drive, interface connections for a peripheral terminal, up to 9600 BAUD transmission capability, and a built-in carrying case for easy portability.

Users must specify computer to be used with the Brailink III when they order, so that the proper components for that system can be included.



**Product Name:** Braille Display Processor

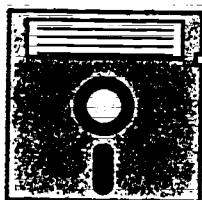
**Vendor:** VTEK

**Computer:** Apple II family, IBM PC family

**Cost:** \$3495.00

Braille Display Processor is a device that displays the characters that appear on a computer monitor as braille characters on a refreshable braille display. A 20-character "window" can be moved around the screen, and the characters in that window appear on the Braille Display Processor's display. Various keys are provided for directing the movement of the window. In the "cursor" mode, the braille display indicates the location of the cursor by row and column. In the "read" modes, text is displayed on the braille display. The cursor itself may be displayed as the 20th character during editing.

The system consists of an external unit with display and control keys and a circuit card that fits in any expansion slot in the computer.



**Product Name:** BraT

**Vendor:** Telesensory Systems, Inc.

**Computer:** IBM PC family

**Manual Form:** Braille/Tactile, Electronic, Printed

**Cost:** \$295.00

BraT is a software package designed to allow the VersaBraille II system (see entry, Telesensory Systems, Inc.) to be used as a braille screen reading and navigating system for an IBM-PC. VersaBraille II is a portable device with a 20-character refreshable braille display. With BraT, this display consists of a 20-character segment of whatever appears on the IBM-PC's monitor. A highlight appears on the IBM screen to indicate what area is currently displayed on the VersaBraille. This area can be moved by using the regular IBM cursor keys or by special BraT commands. BraT commands can also be used to determine the appearance of text (underline, inverse video, etc.) and the position of the display area by line and column.

BraT comes in the form of two disks, one for the IBM and one for the VersaBraille. BraT will work with most programs on the IBM-PC.



**Product Name:** Compu-Lenz

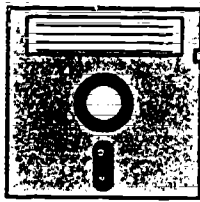
**Vendor:** International Marketing Services, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$189.95

Compu-Lenz is a screen magnifier (fresnel lens) and glare filter that fits on an existing monitor. Compu-Lenz displays the entire screen, magnifying it to approximately twice the area.

Compu-Lenz fits the IBM-PC and most other computers with monitors of similar size. For other size monitors see BEAMSCOPE (separate entry).



**Product Name:** Enable Reader

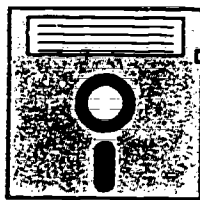
**Vendor:** Enable Software Company

**Computer:** Any CP/M Computer,  
IBM PC family, TRS-80 Model IV

**Manual Form:** Audiotape, Electronic

**Cost:** \$250.00 - \$500.00

Enable Reader Speech System is a program that, when used in conjunction with a speech synthesizer, will speak the contents of the computer screen. Enable Reader uses the combination of the CONTROL and right SHIFT keys as a toggle-type switch by which the user can switch from the "Read" mode to the "Input" mode, and vice versa. In the "Read" mode the user can command the program to speak all or part of the screen; in the "Input" mode the user runs whatever other program it is he wants to run. Once transferred to a computer's operating system disk, Enable Reader loads and runs automatically. Enable Reader functions with DECtalk, Echo GP, Speech +, Votalker, and Votrax PSS speech synthesizers. Enable Reader is compatible with various computers, depending upon the operating system they use: Enable Reader 2.0 supports TRSDOS 6.x, CP/M 2.2, NEWDOS/80, TRSDOS 1.3, and MULTIDOS 3.0 operating systems; Enable Reader 3.0 supports MSDOS. Contact manufacturer to be sure of compatibility with a particular computer.



**Product Name:** Enhanced PC Talking Program

**Vendor:** Computer Conversations

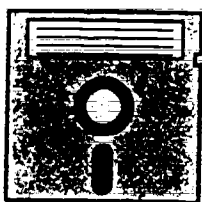
**Computer:** IBM PC AT, IBM PC family,  
IBM PC jr, TRS-80 Model I, TRS-80 Model III

**Manual Form:** Braille/Tactile, Electronic, Printed

**Cost:** \$500.00 - \$700.00

The Talking Program is a screen display and keyboard to voice output program for visually impaired computer users. The Talking Program may be used to speak entire words or to speak letter-by-letter. Letters may be identified as upper or lower case if the user desires. The Talking Program also may speak or ignore punctuation, and inform the user of the row and column position of the cursor. All functions and commands can be user configured by programming unique sequences of keys to control functions. The voice function may be turned off, but control and escape keystrokes are still spoken as an aid to the user.

A speech synthesizer is required for effective use of The Talking Program; contact manufacturer for details.



**Product Name:** Expand-a-View

**Vendor:** ARTS Computer Products, Inc.

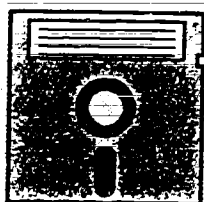
**Computer:** IBM PC AT, IBM PC family

**Manual Form:** Printed

**Cost:** \$495.00

Expand-a-View is a version of PC Lens (see entry, ARTS Computer Products) designed to operate on IBM lap-top computers and compatibles. Characters are enlarged, spread apart, and colored (optional). The program stores the characters that would normally go to the display screen in a buffer, then sends them line by line to the display as enlarged characters. All ASCII characters can be displayed.

Expand-a View works with all line oriented software on PC DOS and MS DOS IBM compatibles that support a color graphics card (required).



**Product Name:** Freedom 1

**Vendor:** Interface Systems

**Computer:** IBM PC family

**Manual Form:** Audiotape, Electronic, Printed

**Cost:** \$499.00

Freedom 1 is a transparent talking screen review program for the IBM-PC and its compatibles, and the DEC rainbow. Tilde key is used to switch from the applications (actual program) mode to the review (screen reading) mode. Once in the review mode, the user can use single keys to execute a number of commands, including character, word, line, and screen reading; silent cursor movement; reverse reading; and placement and seeking of text markers. ESCAPE brings the user back into the applications mode and user can turn on a cursor joining mode which automatically moves the cursor back to the point where reading from the reading mode stopped. Freedom 1 Version 2 allows automatic joining of applications and review cursors, and has an option to allow users to create their own interactive commands with single or limited keys.

Freedom 1 does not actually produce voice output, but functions with various commercially available speech synthesizers. Contact manufacturer for details.



**Product Name:** inLARGE

**Vendor:** Berkeley System Design

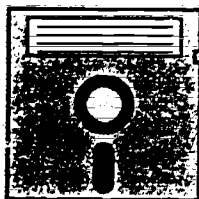
**Computer:** Apple Macintosh

**Manual Form:** Electronic, Printed

**Cost:** \$95.00

inLarge is a software application which magnifies anything that normally appears on the Macintosh display by a factor of 2 to 16 times. Characters as well as graphics are enlarged. inLarge automatically follows the user's keystrokes and mouse movements without interfering with the application program. The location of the cursor in the enlarged character mode directly corresponds to the location of the cursor in the standard character mode. Both black-on-white and white-on-black displays are possible.

In Read Mode inLarge automatically scrolls the screen to the left. When in Read Mode, movement of the mouse side to side controls the scrolling or heading speed. Movement of the mouse up and down selects the lines being displayed. Inlarge works with all software on the Macintosh and handles graphics, text, windows and all features of the Macintosh.



**Product Name:** K Talker

**Vendor:** K Talker Sales

**Computer:** Any CP/M Computer

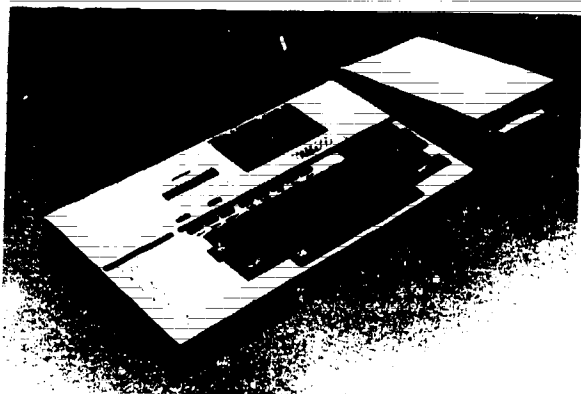
**Manual Form:** Audiotape, Printed

**Cost:** \$250.00

K Talker is a program that provides spoken output of the contents of the computer screen. K Talker is designed to work with the CP/M operating system. The program provides the user with the following capabilities: the ability to hear characters as they are entered on the keyboard, the ability to hear words as they are sent to the computer's screen from application programs, the ability to review what has been sent to the screen, and the ability to bypass the computer and go directly to the synthesizer.

K Talker requires a speech synthesizer, and computer using the CP/M operating system and having a port to which the speech synthesizer can be connected. This program is used on the Kaypro 485 and Model II, and is being revised. Contact manufacturer for information on new version of program.





**Product Name:** Keynote

**Vendor:** Sensory Aids Corporation

**Computer:** Apple II family, IBM 3270,  
IBM PC family, Terminal

**Manual Form:** Audiotape, Electronic, Printed

**Cost:** \$2,470.00

Keynote is a portable word processor, notetaker and information storage device that talks to the user. By incorporating a miniature portable disk drive, Keynote is able to store up to 100 pages of information on each 3 1/2" disk. The keyboard has sufficient memory for 14 fully typed pages which can be organized into 10 separate documents. Keynote retains information even when the power is off. Information can be printed out on the built-in microprinter, or an electronic typewriter or printer can be used to give full page layout.

Optional software is available for the Keynote which allows it to act as a separate terminal for popular computers. These terminal programs are available for both microcomputer and mainframe systems. Contact the manufacturer for details.



**Product Name:** Large Print Display Processor

**Vendor:** VTEK

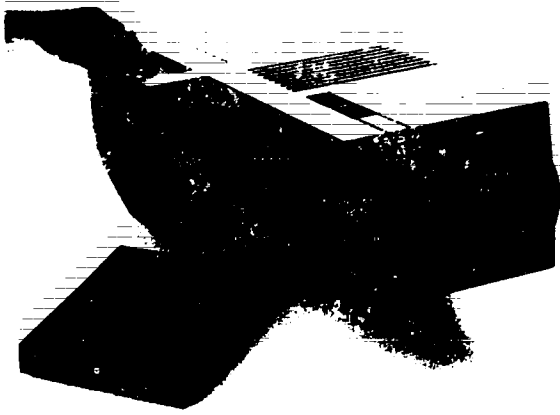
**Computer:** Apple II family, IBM PC family

**Cost:** \$2695.00

Large Print Display Processor is a peripheral device which enlarges the text that appears on a computer's monitor screen. Text can be enlarged up to sixteen times its original size. The area to be enlarged can be moved around using a joystick control. The area enlarged can be made to follow the screen cursor. A single line may be isolated for viewing, and the screen image can be positive or negative. The Large Print Display Processor does not enlarge graphics. The device requires no additional software to operate, and does not affect the operation of standard software running while it is in use. The Large Print Display Processor also does not occupy any of the computer's memory while in use.

An IBM color graphics adapter is required to use the IBM version, if both large print and standard are to be viewed on the same display. Otherwise two monitors are required.





**Product Name:** LimeLight

**Vendor:** Apercom Corporation

**Computer:** All (Hardware Independent)

**Cost:** \$3,950.00

The Limelight is a large-print device that projects the contents of a computer screen onto a wall or screen. Anything that is displayed on the computer's standard monitor also will be projected by Limelight including graphics. Limelight is designed to be visible in lighted rooms, and focus, brightness, and contrast are easily adjustable.

Also available with Limelight are a variety of projection screens, a data switcher that allows up to 40 computers to send data to Limelight, and video adapters and cabling for computers that are not able to produce the correct video signal.



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**Product Name:** Lyon Large Print Program

**Vendor:** Computer Diskcourse

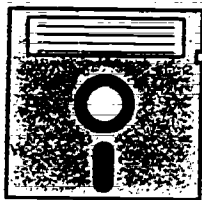
**Computer:** IBM PC family

**Manual Form:** Electronic, Printed

**Cost:** \$490.00

The Lyon Large Print Program is an interactive program that will work with most off-the-shelf word processing and database programs. On-screen letters may be from one to four inches in height. In interactive mode, large print characters are displayed in one scrolling line across the bottom of the screen as the user types. A large print text editor (EDLYON) is included with the program.

A color graphics monitor is required to run the Lyon Large Print Program. An optional Lyon Large Print Color Card smooths the large characters and allows for larger type. Contact the vendor for details.



**Product Name:** Magic Keyboard

**Vendor:** Woodsmith Software

**Computer:** Any CP/M Computer,  
IBM PC family

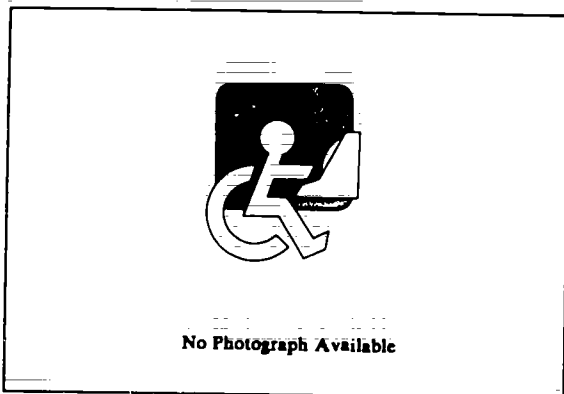
**Manual Form:** Printed

**Cost:** \$44.50

Magic Keyboard is a translation program using graphics to create large character sets and seven type styles readable by people with low vision. In addition to the seven double high, slightly larger than double wide type styles, the program includes a "square font" that enlarges well, with virtually no diagonals. The program is reportedly able to print characters up to 100 feet tall, and sideways to 12 inches. Data can be entered from any standard word processing file (Magic Keyboard translates WordStar files directly), or from direct type mode one line at a time. The direct type mode features page formatting and online editing. The user can delete and insert a character, word or line; move a line; adjust margins and indentation; and jump to the beginning and end of the line. The system has fonts up to 1/2 " tall which can be doubled or quadrupled while still maintaining good quality.

For information regarding the printers which are supported by the software, contact the manufacturer.

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**Product Name:** MagniLink

**Vendor:** Elayo Americas, Inc.

**Computer:** Apple II family

**Cost:** \$2675.00

Magnilink is a closed circuit television system consisting of a small TV camera, a base unit, and any black-and-white TV set. The camera is used to scan a text (or photo, etc.), and the image is then magnified and broadcast to the TV set via the base unit. On a 24" screen, Magnilink can provide up to 54 times magnification. Another version of Magnilink (Magnilink CC) broadcasts to a computer monitor; other versions allow the user to view both magnified text and computer screen display simultaneously in a split-screen format.

The camera unit is available in four models: hand-held, typewriter, long-range, and computer terminal (mounts on terminal and magnifies screen). Other accessories are available that allow additional modifications to the system, such as power from a car battery unit; contact manufacturer for details.



**Product Name:** Optacon

**Vendor:** Telesensory Systems, Inc.

**Computer:**

**Cost:** \$4695.00

Optacon is a portable tactile reading system which gives the user direct access to printed material. A hand-held camera (about the size of a cigarette lighter) is scanned across the printed page. The retina of that camera perceives the contrast between the light page and dark print and sends the image to a vibrating tactile array. The user rests the index finger on that tactile array and is able to feel the letters move underneath the fingers. The entire unit is approximately the size of a portable cassette recorder.

Several optional lenses are available (magnifying lens, typewriter lens, computer lens); contact manufacturer for details.



**Product Name:** PC Lens

**Vendor:** ARTS Computer Products, Inc.

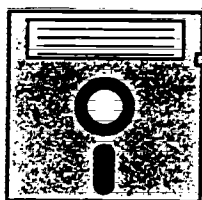
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$495.00

PC Lens is a program designed to make characters on a computer screen easier to read. Characters appear enlarged, spread apart, and colored (optional). The section of the normal display that appears enlarged on the screen may be moved about automatically or may be moved manually, both horizontally and vertically, using the cursor keys. PC Lens commands are executed using the function keys. (Both cursor and function keys remain free for other uses as well.) PC Lens shows all the 255 IBM characters sent to the display screen. It does not work with graphics.

PC Lens works on PC DOS and MS DOS computers supporting standard IBM software and video cards. A monochrome and a color adapter card are required, even if only a color monitor is used. PC Combo is also available. It combines all the features of PC Lens and PC Voice.



**Product Name:** PC Speak

**Vendor:** Solutions By Example

**Computer:** IBM PC family, IBM PC jr

**Manual Form:** Printed

**Cost:** \$475.00

PC Speak is a talking display program that speaks the contents of the display screen. The user can at any time suspend operation of the applications program that he is working on, and direct PC Speak to speak the contents of the screen by the letter, by the word, or by the line. Tones reflect the position of the cursor, and the program can be instructed to state the cursor position or the status of keys such as CAPS LOCK. Punctuation can be spoken or silent (pauses of various lengths).

PC Speak requires a text-to-speech synthesizer and a parallel or serial adapter as appropriate for the synthesizer. PC Speak will work with almost any applications program on the IBM-PC. PC Speak jr, a version of PC Speak for the IBM PC jr, is also available.



No Photograph Available

**Product Name:** PC Vert

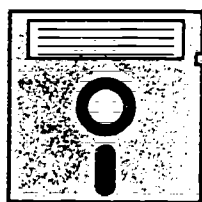
**Vendor:** Telesensory Systems, Inc.

**Computer:** IBM PC family

**Cost:** \$3800.00

PC Vert is a voice output system consisting of a hardware unit added to an IBM-PC system. PC Vert allows the user to hear what is on the screen spoken by synthesized voice. The program operates in two modes. In the on-line mode, the cursor acts like a standard cursor, and each character can be spoken as it is entered. In the review mode, the first cursor is frozen and a second cursor moves through the text as the text is read back in any size segment desired (character, word, line, etc.). All commands are activated with minimal keystrokes within the home row range of the keyboard. When in the review mode, the editing cursor can be merged at any time with the review cursor for the purpose of making corrections. Speed of spoken output is user adjustable.

Various options for PC Vert are available, including 3278 Vert, a program and circuit card that allows PC Vert to be used in a mainframe terminal emulation mode, and Vert Qwerty, a word processing program.



**Product Name:** PC Voice

**Vendor:** ARTS Computer Products, Inc.

**Computer:** IBM PC AT, IBM PC family

**Manual Form:** Printed

**Cost:** Contact manufacturer

PC Voice is a program that speaks the contents of the computer screen via a speech synthesizer (extra). The speech follows the standard cursor, speaking the text that it moves across. The user may move the segment to be reviewed around the screen using the standard cursor keys. The area being reviewed is always displayed in reverse video. Custom pronunciations of words and abbreviations are definable. All 255 IBM characters may be spoken as well.

PC Voice works on all PC DOS and MS DOS computers supporting standard IBM software. A color or monochrome graphics adapter card is required, as is a compatible speech synthesizer. PC Combo is also available. It combines all the features of PC Lens and PC Voice.



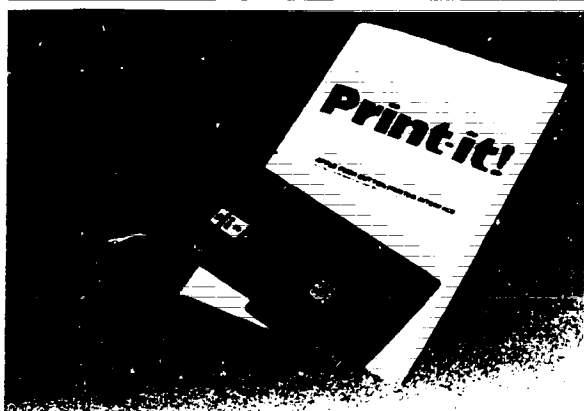
**Product Name:** PC-Braille

**Vendor:** Triformation Systems, Inc.

**Computer:** IBM PC family

**Cost:** \$3500.00

PC-Braille is a hardware package that provides for braille output on an IBM-PC. The package consists of an internal circuit card for the computer, a connecting cable, and a refreshable braille display and scanning keypad. Information already stored in files on the IBM can be read on the refreshable 24-character braille display display. PC-Braille is transparent to other software and allows the user to have full screen orientation.



**Product Name:** Print-it

**Vendor:** Textprint

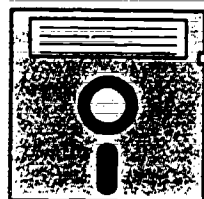
**Computer:** Apple II+, Apple IIe, Franklin family

**Cost:** \$199.00

Print-it is a serial and parallel printer interface card that allows the contents of virtually any screen in virtually any program to be printed on a printer (Braille or regular) or sent to a voice synthesizer. Even those programs which do not allow printing from within the program will allow Print-it to print the contents of the screen at any time. Printing is triggered by pressing a special button, and can be done on a dot-matrix or letter-quality printer. Commands are also provided for determining special print conditions, such as printing a double-size or reverse image. Print-it can also send non-graphic data to a speech synthesizer, for obtaining speech output for programs that cannot otherwise be persuaded to "talk." Entire screen contents are sent each time Print-it is activated.

A chart is provided showing the settings to be used for various printers. Contact the manufacturer about the compatibility of a particular printer. A program called Save-it, designed to work with Print-it, is also available. Save-it saves to a disk the same material that Print-it sends the printer.

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**Product Name:** ProTERM

**Vendor:** MicroTalk Software

**Computer:** Apple II family

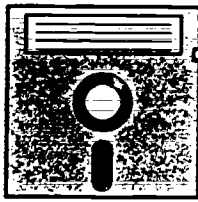
**Manual Form:** Audiotape, Electronic, Printed

**Cost:** \$150.00 - \$195.00

ProTERM is a machine language program that transforms an Apple IIc or enhanced IIe into a talking intelligent terminal, i.e., it allows any text that can be displayed on the screen to be spoken, including files of data transferred to the user's computer from another. Files created on a computer with ProTERM in operation can also be transferred to another system transparently. ProTERM can be run under the ProDOS operating system, in which case it will load automatically when the computer is turned on. ProTERM has the capability of reading every keystroke as it is entered, and undesired characters can be shut off so that they won't read aloud. ProTERM also has an abbreviation expansion option.

128K and a Super Serial Card are required to use ProTERM with the Apple IIe. A Cricket speech synthesizer is required on the IIc; an Echo II or Echo+ on the IIe. ProTERM Plus, a version of ProTERM with the capability of communicating using the X-Modem protocol, is available at additional cost.

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**Product Name:** PROVOX

**Vendor:** Kansys, Inc.

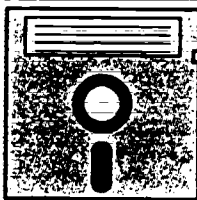
**Computer:** IBM PC family

**Manual Form:** Audiotape, Braille/Tactile,  
Electronic, Printed

**Cost:** \$295.00

PROVOX is designed to give the computer user control of voice output in both Direct and Review modes. Once installed, PROVOX outputs most keystrokes and screen display. The user can interrupt speech output to skip over portions of screen display, cause the repetition of previously spoken output, locate the cursor, or read only highlighted areas. Other options include moving up or down the screen one line at a time and restricting voice output to a specified window. The user can specify whether or not silent characters such as 'return' or 'space' are spoken.

Currently, PROVOX supports five voice synthesizers. Contact the manufacturer for details. There are three versions of the program which support the voice synthesizers. A thirty minute demonstration package is available for \$75.00 which can be applied to the total purchase price. Subsequent versions will be available to licensed users at a reduced cost.



**Product Name:** SCAT (Screen Articulator)

**Vendor:** RC Systems, Inc.

**Computer:** Apple II family

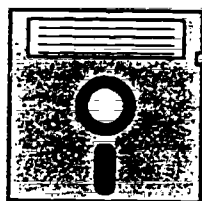
**Manual Form:** Electronic, Printed

**Cost:** \$19.95

SCAT is a program designed to be used with RC System's Slot-Buster multifunction card. It enables a visually impaired Apple user to gain access to many unprotected programs, through automatic keyboard and program synthesized speech feedback and built-in screen review features. It is compatible with Braille Edit, BEX, ProWords, ProTerm, APH Apple Presents Apple, Teacher's Pet, Speaking Speller, Applesoft, Integer Basic, and others. In Echo/Textalker emulation mode it works with most programs written for the Echo speech synthesizer. The advanced screen review capabilities include string search, and built-in commands are included for setting punctuation levels, speech rate, volume, word delay, and other features.

SCAT works with most DOS systems, including DOS 3.3, ProntoDOS, Diversi-DOS, and ProDOS. Documentation includes manual and text files on disk. A talking version of the Slot-Buster manual is available (extra).





**Product Name:** Screen-Talk Pro

**Vendor:** Computer Aids Corporation

**Computer:** IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$395.00

Screen-Talk Pro provides spoken output from most applications programs that run on the IBM-PC and compatibles. All information shown on the computer screen may be spoken aloud. Keys may be spoken as they are typed, or the display may be reviewed letter-by-letter, word-by-word, line-by-line, or by specific columns. Up to three "windows" may be defined to control which different areas of the screen will be spoken. Speech may be silenced momentarily or turned off entirely at any time. Four modes govern the voicing of punctuation marks and other special characters. Various on-screen search and video attribute capabilities are also included.

Screen-Talk Pro comes bundled with a ProKey program (see entry) to make Screen-Talk Pro interactive with applications programs. Screen-Talk supports most commercially available speech synthesizers, as well as many internal and external modems.



**Product Name:** Soft Vert

**Vendor:** Telesensory Systems, Inc.

**Computer:** IBM PC family

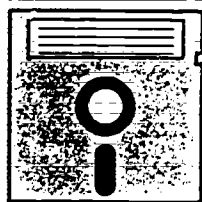
**Manual Form:** Audiotape, Braille/Tactile

**Cost:** \$399.00

Soft Vert is a program that works in conjunction with a speech synthesizer (extra) to provide spoken output of the material that appears on the computer screen. In the edit mode, each letter can be spoken by a voice synthesizer as it is typed in. In the review mode, any size segment of text (character, word, line, etc.) can be read back by the voice synthesizer. The "route" command automatically brings the edit cursor to the location of the new cursor for making corrections. The "stop" command stops the review process within a few words of the moment it is entered.

Soft Vert works with a number of commercially available speech synthesizers.





**Product Name:** Talking TermExec

**Vendor:** Exec Software, Inc.

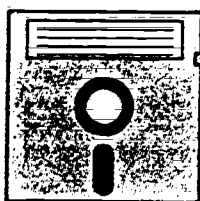
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$95.00

Talking TermExec is a screen voice output package for Apple computers which provides voice as well as screen output of information. A special buffer zone allows the user to continue operation of a computer program ahead of voice output. The speech can catch up with the screen output by utilizing the same mechanism that TermExec employs to perform simultaneous echo printing with a slow printer.

The program requires an Echo II speech synthesizer for voice output capabilities.



**Product Name:** Tall Talk Prints

**Vendor:** Speech Enterprises

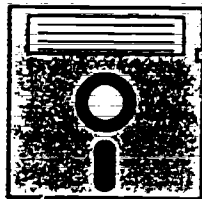
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$60.00

Tall Talk Prints is a program that provides large print characters on a printer, and optional voice output through a speech synthesizer, for any compatible applications program. Tall Talk Prints is loaded before the applications program and in effect magnifies and reads aloud the screen's contents. 18 point type size (0.25" - 0.33") is provided.

Tall Talk Prints will not work with every applications program. Also, ProDOS System Utilities (or similar) are required to translate ProDOS textfiles into DOS files for large print conversions. A compatible printer and speech synthesizer (if desired) are required to use Tall Talk Prints. Contact the manufacturer about compatibility. Three TEX-TALK Fonts Disks providing additional typefaces are available.



**Product Name:** Tall Talk Screens

**Vendor:** Speech Enterprises

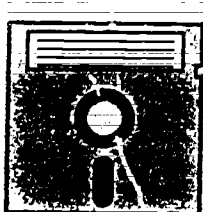
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$45.00

Tall Talk Screens is a program that provides large print characters on the screen and optional voice output through a speech synthesizer for any compatible applications program. Tall Talk Screens is loaded before the applications program and in effect magnifies and reads aloud the screen's contents. Tall Talk Screens may be used to simply add these alternate outputs to the screen displays in programs, or it may be used as a utility for programming large print and voice into programs.

Tall Talk Screens will not work with every applications program. Contact the manufacturer for information on what programs are compatible or test programs using Tall Talk Screens. A compatible speech synthesizer is required for voice output.



**Product Name:** Textalker.Blind and Other Echo Utilities

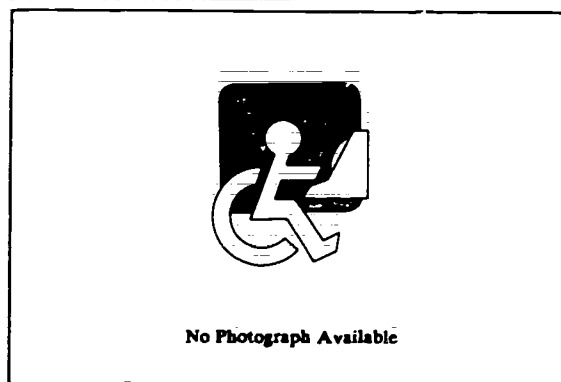
**Vendor:** Street Electronics Corporation

**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** See below

Textalker is one of the programs that comes on the utility disk included with the purchase of a speech synthesizer from Street Electronics. Textalker is a text-to-speech program with unlimited vocabulary. The program allows the contents of the computer screen to be read back via a speech synthesizer while an applications program is being run. Characters can also be echoed back one at a time as they are entered. Also included on the disk are Echo Com, a program which allows the teacher to create menus of words and phrases which can be accessed with a minimal number of keystrokes for use in augmentative communication training. EchoWords is a fixed dictionary of 700 words in female voice.



**Product Name:** V.P.

**Vendor:** Maryland Computer Services, Inc.

**Computer:** IBM PC family

**Cost:** \$3,900.00

V.P. is an external component for the IBM-PC that provides spoken output of the contents of the computer screen. Two separate cursors are provided, one that functions like the normal cursor for editing and adding text, and another that follows what is being read back by the V.P.'s built-in speech synthesizer. The reading cursor and the writing cursor can each be routed automatically to the other's position with a single keystroke. Either cursor can be positioned by row and column, or by a search for a particular word or words. The read cursor can read by the character, by the word, by the line, or by larger segments of text. Pronunciation, rate of speech, and how numbers are to be spoken are all user-adjustable. Graphics characters can be spoken, as can such features as colors and other visual enhancements. Macros (one keystroke enters up to 30 characters) can be created, and an enunciator key will allow all keys to announce their function rather than execute it.



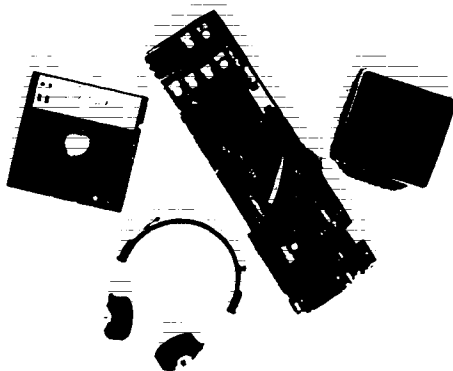
**Product Name:** Vantage

**Vendor:** Telesensory Systems, Inc.

**Computer:**

**Cost:** \$2495.00

Vantage is a closed circuit television system that magnifies any printed text. The user positions text under a camera, and the text appears, enlarged 3 to 45 times, on a video screen. The non-glare screen can be raised, lowered, and tilted. Added underlining and overlining are possible, and a split screen can be used to view two texts. Vantage can also act as a monitor for Vista, an image enlarging system for the IBM-PC (see entry, Telesensory Systems, Inc.).



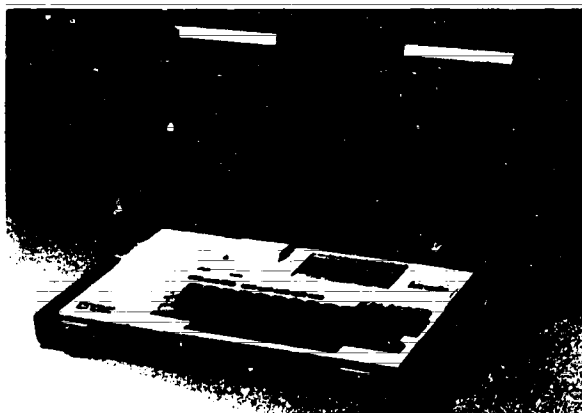
**Product Name:** Vert Plus

**Vendor:** Telesensory Systems, Inc.

**Computer:** IBM PC family

**Cost:** \$2495.00

Vert Plus is a program that provides voice output of the material displayed on the computer screen. Vert Plus offers the same features as Soft Vert (see entry, Telesensory Systems, Inc.), but is compatible with, and comes equipped with, a CallText speech synthesizer (see entry, Speech Plus).



**Product Name:** Viewscan Text System

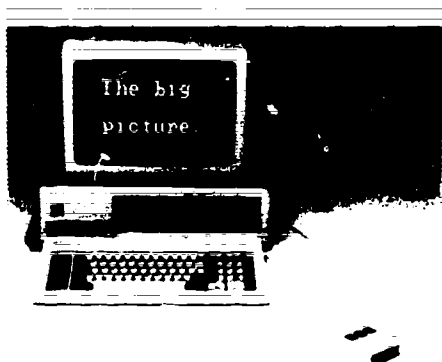
**Vendor:** Sensory Aids Corporation

**Computer:** Apple II family, IBM 3270,  
IBM PC family

**Cost:** \$4,890.00 - \$5,890.00

Viewscan Text System is a combination electronic large print display and portable computer. The computer is a modified Epson HX-20, with a standard size 80-character LCD display and small built-in printer. The LCD is used only for display of the opening menu, and does not function when operating the Viewscan Text System. A small hand-held camera is passed across a written text, and the text scanned by the camera appears on the large print display in letters up to 2" high. Text created and edited on the portable computer can also be viewed on the large print display. The system has a built-in calculator and word processing functions. If only reading of printed text is desired, the large print display unit and miniature camera can be used separate from the computer.

Various hardware and software packages are available for the Viewscan Text System, including programs for word processing, database management, and spreadsheets; as well as systems that allow the VTS to be used as a keyboard for the IBM-PC or a terminal for an IBM mainframe. For price and compatibility information, contact the manufacturer.



**Product Name:** Vista

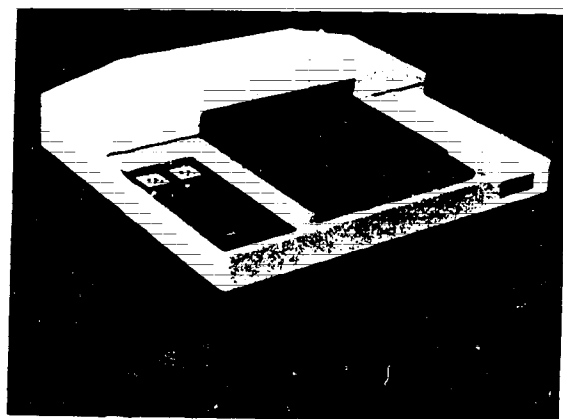
**Vendor:** Telesensory Systems, Inc.

**Computer:** IBM PC family

**Cost:** \$1,700

Vista is a hardware and software package that allows a portion of the screen display to be selected and enlarged. The system consists of an internal circuit card, a program on disk, and a mouse. By pressing certain buttons on the mouse and moving the mouse, the user can enlarge an area of the screen, move the area to be enlarged around the screen, mask off only one line for viewing, jump from the end of one line to the beginning of another, and stretch an image taller or wider. Magnification can be from 3 to 16 times.

Vista uses the existing color or monochrome monitor, will work with most all software, and will magnify graphics and other screen attributes.



**Product Name:** Words-to-Voice

**Vendor:** Totec Company, LTD

**Computer:** IBM PC family

**Cost:** \$6500.00 - \$9000.00

Words-to-Voice is a complete system for optical character reading and word processing. The system consists of an IBM-PC, a DECTalk speech synthesizer, a Totec optical character reader, a printer, and three programs on disk. The optical character reader scans over a typed text, identifies the characters, and transmits this information to the computer as electronic text. Once the text is in the computer, it can be printed on the printer or spoken by the synthesizer. The three programs for the computer are a communications program, a word processing program, and a voice output program (Enhanced Talking PC Program; see entry, Computer Conversations). Each component of the Words-to-Voice system is available separately.

## Chapter 6

# Braille Printers and Tactile Display Components

*This chapter includes devices that have either Braille or other tactile output. Devices in this category are not systems in themselves, but are meant to be components that are used with other special software. Braille devices are often sold both separately and with software packages. If sold separately, they are listed here. If sold as part of a package, they are listed either in Chapter 2 (if they allow transparent access to standard software programs) or in Chapter 13, Personal Tool or Aid Software (if they are used with special stand-alone application software for blind persons).*

*Related feature codes found in the cross reference indexes include Braille output (ODB) and Tactile/Braille Display (ODT).*

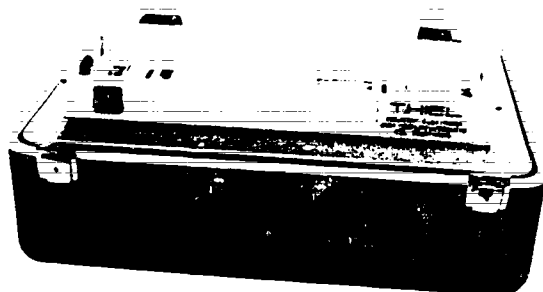
*Appendix A contains various information summaries such as Information Resources for Blind and Visually Impaired Individuals.*

The following product entries appear in this chapter:

BETA-X3 Thiel Braille Printer 3-105  
Cranmer Modified Perkins Braille 3-105  
Electronic Typing Fingers 3-106  
INDEX 3-106  
MBOSS-1 3-107  
Microbraille 2400 3-107  
MPRINT 3-108  
Ohtsuki Printer 3-108  
Personal Braille 3-109  
Romeo Braille 3-109  
TED-600 Text Embossing Device 3-110  
TRI-170 Braille Terminal Embosser 3-110  
VersaBraille 3-111  
VersaPoint Braille Embosser 3-111

The following products from other chapters can also be used as Braille Printers or Tactile Display Components:

Brailink III 3-83  
BraT 3-84  
Optacon 3-91



**Product Name:** BETA-X3 Thiel Braille Printer

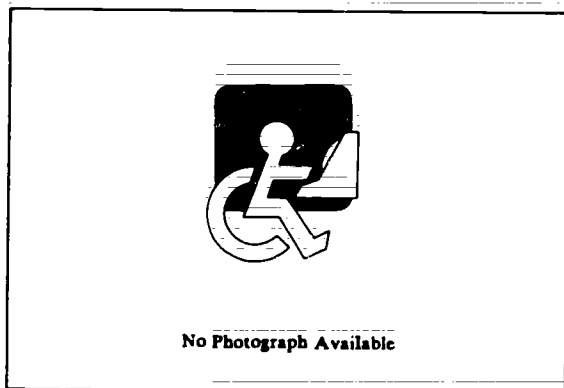
**Vendor:** VTEK

**Computer:** All (Hardware Independent)

**Cost:** \$17,495.00

BETA X-3 is a portable braille printer based on the Thiel Printer technology. The user may either enter braille on the BETA X-3's keyboard or input computer braille text from a computer. Grades 1 and 2 braille, notation and mathematic script can be printed, and 6- or 8-dot braille are supported. Different braille character sets such as German Braille may be selected. Raised dot graphics can be created as well. 11 to 42 characters per line and 10 to 39 lines per page are possible. The BETA X-3 uses tractor paper feed.

Text sent to the BETA X-3 from another device must be already translated if the user desires grade 2 braille. ASCII characters sent will be printed as the equivalent (uncontracted) braille. An alphanumeric keyboard is available at extra cost (\$450.00); contact manufacturer for details.



**Product Name:** Cranmer Modified Perkins Brailer

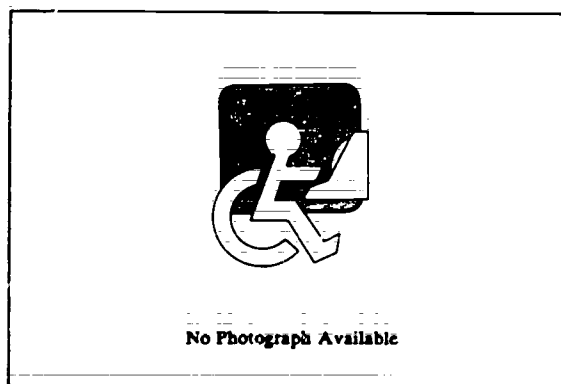
**Vendor:** Maryland Computer Services, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$2,550.00

Cranmer Modified Perkins Braille is a device which acts as braille printer and typewriter. The user can enter text on the device's braille keyboard and print it out for review, or a computer braille file may be fed in (via a serial port) and printed. The device is equipped with a 4,000 character buffer for printing from computer files.





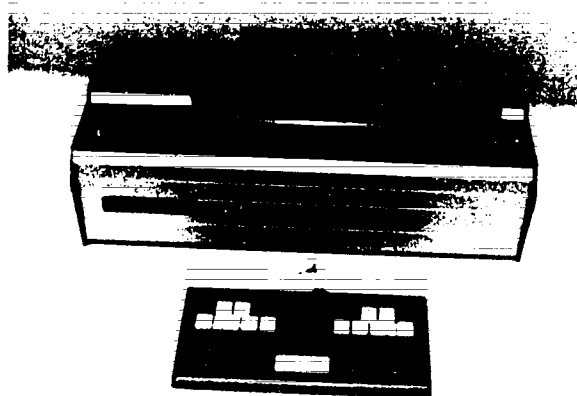
**Product Name:** Electronic Typing Fingers

**Vendor:** Personal Micro Computers, Inc.

**Computer:** IBM PC family

**Cost:** \$295.00

Electronic Typing Fingers (ETF-80) is an adapter for the IBM braille typewriter to allow computer output of braille. A parallel printer interface is required.



**Product Name:** INDEX

**Vendor:** VTEK

**Computer:** All (Hardware Independent)

**Cost:** \$4395.00

INDEX is a braille printer that embosses at a rate of 20 characters per second. Text can either be entered on INDEX's braille keyboard or input from an existing braille text file composed on a microcomputer. Operating settings for printing can also be entered from INDEX's keyboard. INDEX has a 22K RAM memory, and can produce multiple copies automatically.

INDEX connects to a microcomputer's RS-232 serial port.



**Product Name:** MBOSS-1

**Vendor:** VTEK

**Computer:** All (Hardware Independent)

**Cost:** \$3,225.00

MBOSS-1 is a braille printer that prints at a rate of 10 characters per second. MBOSS-1 uses continuous form tractor feed, and will accommodate paper up to 13" wide. Braille can be printed in 6- or 8-dot format. MBOSS-1 will translate ASCII characters into American Standard Braille, 40 characters per line with a maximum page length of 27 lines. Audio indicators are provided that signal on, off and alert conditions (such as paper out).

MBOSS-1 can receive text output from any device with a RS-232 serial port or Centronics-type parallel port. MBOSS-1 can only print grade 2 braille files if those files are already in grade 2 form when sent to the MBOSS-1.



**Product Name:** Microbrailier 2400

**Vendor:** Triformation Systems, Inc.

**Computer:** Any CP/M Computer

**Cost:** \$5750.00

MicroBrailier 2400 is a braille data entry and text editing device with a 24-character refreshable braille display. The Microbrailier has a seven-key electronic keyboard (one for each braille dot and one key for spacing) plus six operational keys, a cassette storage system that uses standard audio cassettes, and two RS-232C input/output ports. Text entered on the keyboard can be reviewed on the display, moved, added, deleted, or sent to cassette storage or another device. Up to 1,000 pages of braille text can be stored on one 90-minute cassette. The input/output ports allow the text to be sent to printers or computers as either braille or standard text. Single character commands are provided for configuring either port. The two can be configured independently, for instance in order to drive a standard and a braille printer at the same time. Text can be sent or received (for instance from an optical character reader) in the form of ASCII.



**Product Name:** MPRINT

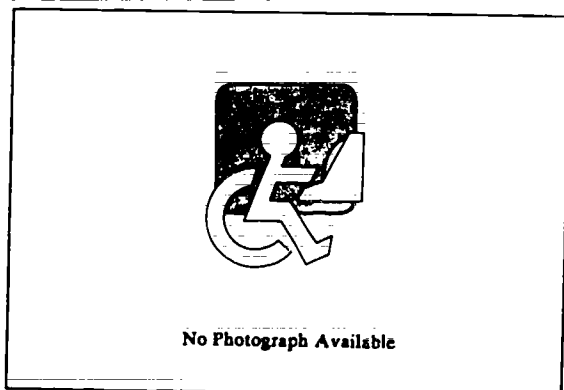
**Vendor:** VTEK

**Computer:** All (Hardware Independent)

**Cost:** \$695.00 - \$875.00

MPRINT is a device that connects to a Perkins Braille and sends the same characters being embossed on the Perkins to a standard printer to be printed as standard alphabetic characters. Each line on the Perkins appears as an individual line on the ink printer. Preset default positions are provided for margins, capitalization, and spacing. MPRINT automatically expands grade two braille into full ASCII text for printing. Alternatively, the user can print the grade two characters directly for learning and reviewing.

The above features are available for both the MPRINT Message Center (\$695.00) and the MPRINT Writer (\$875.00). The MPRINT Writer has additional features, such as more flexible formatting and the ability to delete the last few characters sent. Most standard serial or parallel printers will work with MPRINT.



**Product Name:** Ohtsuki Printer

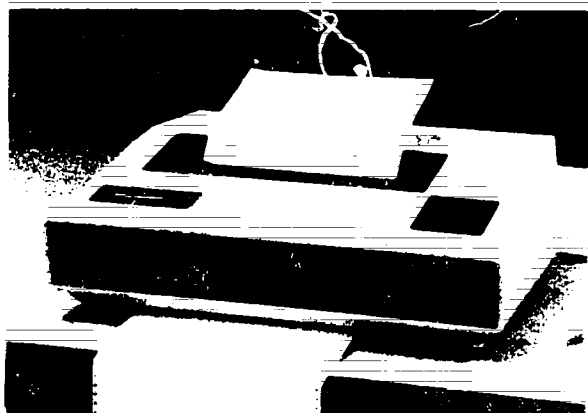
**Vendor:** Ohtsuki Communication Products, Inc.

**Computer:** Apple II family, IBM PC family

**Cost:** \$4,980.00

Ohtsuki Printer is a braille printer capable of producing parallel lines of braille and standard ink print. The user sends the printer a grade 1 or grade 2 braille file via a computer's serial or parallel port, and the printer can print only standard ink print (dot matrix), only braille, or both types on alternate lines. The speed of printing is slightly lower when both types are used. Grade 2 braille can also be printed, but only if the user has the necessary translation software on the computer. Either single sheet paper or continuous feed paper may be used.

The manufacturer is able to provide the necessary braille paper and the ink cartridges for ink printing. Contact them about the cost.



**Product Name:** Personal Brailier

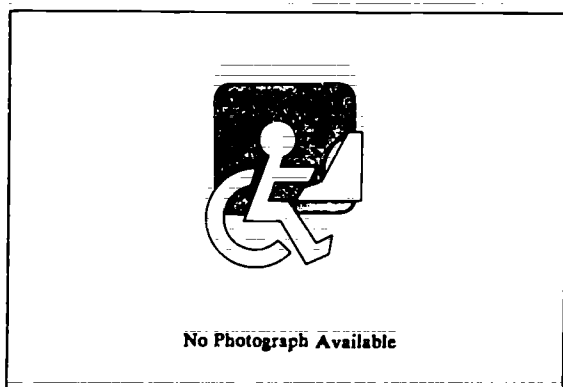
**Vendor:** Triformation Systems, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$3450.00

Personal Brailier is a braille printer that can print characters and some graphics. Any standard text in electronic form can be sent to the Personal Brailier, which will translate it into grade 1 braille, including eliminating word breaks at the ends of lines. The Personal Brailier will also accept Grade 2 braille from a computer braille translation program. In the graphics mode, 120 dots can be embossed across a 40-character line using a vertical matrix of four dots minimum. Audible and on-line/off-line and paper out signals are provided. Page length can be 25 or 27 lines.

Communication with other devices (computers, modems, etc.) can be in either ASCII or Baudot (TDD) code.



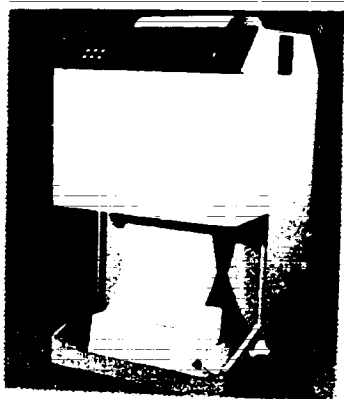
**Product Name:** Romeo Brailier

**Vendor:** Maryland Computer Services, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$2,750

Romeo Brailier is a braille printer capable of printing grade 1 or "computer" braille (from a computer text file) at a speed of up to 20 characters per second. The user can either send the device a computer braille text file via a Centronics parallel interface or an RS-232C serial interface, or type braille text in directly on an optional external braille keyboard (extra). The Romeo prints in 6-dot braille with 42 cells to the line. An audible paper out detector is provided. The Romeo uses tractor feed paper, and comes in a suitcase-style case with handle.



**Product Name:** TED-600 Text Embossing Device

**Vendor:** Triformation Systems, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$37,500.00

TED-600 Text Embossing Device is a high speed braille printer that embosses two pages simultaneously on a single sheet, at a speed of 600 lines per minute. An LCD display reports the unit's status and informs the operator of any changes in the system. By pushing a few buttons, the operator can also confirm the status of the device's electronics and embossing system. Using infrared optical scanners, the TED-600 is able to monitor its embossing cycles and inform the operator of any problem, pinpointing the location of the difficulty.

The TED-600 can be adjusted to work with virtually any device that sends ASCII via an RS-232 port, if that device is capable of braille translation.



**Product Name:** TRI-170 Braille Terminal Embosser

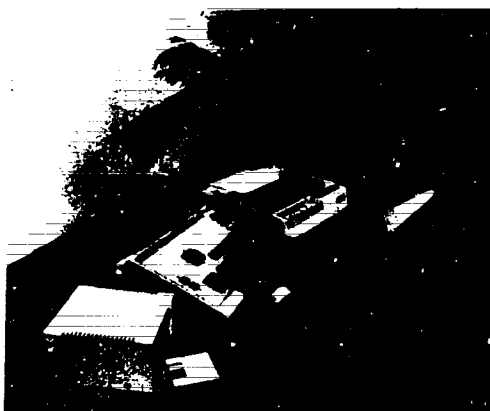
**Vendor:** Triformation Systems, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$12,500.00

TRI-170 Braille Terminal Embosser is a braille printer that embosses at a speed of 170 characters per second. The TRI-170 will automatically translate computer braille files into grade 1 braille, translating any unusual punctuation or numeric characters into their conventional braille counterparts, preventing word breaks at the end of lines, and applying correct braille capitalization procedures. If a text is not already formatted for braille, the TRI-170 can create 40-character lines, avoid word breaks, and maintain the original text's margins. A paper-saving feature permits up to 31 lines to be fit on a standard braille page, and an automatic page numbering function can be turned on or off with a switch. A keyboard is provided that allows short texts to be entered directly, the TRI-170 acting as a braille typewriter.

The TRI-170 can receive text in either ASCII or Baudot (TDD) code.



**Product Name:** VersaBraille

**Vendor:** Telesensory Systems, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$6495.00 - \$6750.00

VersaBraille is a portable computing and word processing device with a 20-character refreshable braille display. The user can enter text on VersaBraille's braille keyboard, and read this text on the display, which consists of a set of 20 cells, each with a group of small reeds that can be electronically raised to form braille characters (a refreshable braille display). Computer braille text can also be transmitted between the VersaBraille and a standard computer in the form of ASCII text files.

Two models are available, the original VersaBraille (\$6750.00) and VersaBraille II (\$6495.00). The original VersaBraille uses a cassette drive for storage; VersaBraille II uses a mini-disk. VersaBraille II has more sophisticated word processing built in. Both can be interfaced with modems. Various software is available for both, including a word processor for the first VersaBraille called VersaText (VersaText Systems, Inc; contact Telesensory Systems for information). A version of the Duxbury Braille Translator (translates between grades 1 and 2 braille) is available for the VersaBraille.



**Product Name:** VersaPoint Braille Embosser

**Vendor:** Telesensory Systems, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$3,895.00

VersaPoint Braille Embosser is a 20 character per second braille embosser. The system has a moveable platen which allows the VersaPoint to place a braille dot anywhere on the page. VersaPoint uses solenoids to generate its braille characters. Each solenoid only needs to braille four cells per line, which reduces strain on the embossing heads. Paper type and width are user selectable up to 13 inches. VersaPoint uses tractor fed paper with a 30,000 character buffer, and uses standard parallel and serial ports. All configuration control parameters are easily set through the control panel rather than dip switches.

The placement of the braille dots are completely software controlled, which enables potential development of graphics packages represented by dots, or sideways embossing to allow printing of a full screen of information that retains exact screen format; these adaptations are in development by manufacturer. The VersaPoint is available with an optional carrying case; contact manufacturer for details.

# Chapter 7

## Speech Synthesizers

*This chapter includes both hardware and software speech synthesizers which are designed to be stand-alone components used by other application programs. Products in this category do not themselves provide transparent access to standard computers, although they may be used in conjunction with another piece of software to provide that function.*

*Related function codes found in the cross reference indexes include Screen to Voice (SV), Phone Control (PC) and Education/Training/Therapy (ET).*

The following product entries appear in this chapter:

CallText 5000 3-115  
CallText 5050 3-115  
Cricket 3-116  
DECtalk 3-116  
Echo + 3-117  
Echo GP 3-117  
Echo PC2 3-118  
Intex-Talker 3-118  
Mockingboard 3-119  
Personal Speech System 3-119  
Slotbuster 3-120  
SmoothTalker 3-120  
Software Automatic Mouth (SAM) 3-121  
Super Voice 3-121  
Supertalker 3-122  
SynPhonix 100 3-122  
SynPhonix 200 3-123  
Synphonix jr 3-123  
Type-N-Talk 3-124  
Ufonic Voice System 3-124  
Voice Master 3-125  
Votalker AP 3-125  
Votalker C-64 3-126  
Votalker IB 3-126





**Product Name:** CallText 5000

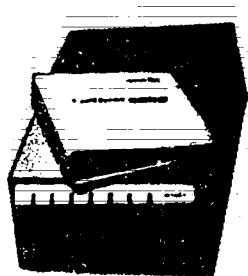
**Vendor:** Speech Plus, Inc.

**Computer:** IBM PC family

**Cost:** \$3225.00

CallText 5000 is an internal circuit card that provides highly intelligible synthesized speech output for the IBM-PC. CallText 5000 converts any sequence of ASCII characters routed to it into English speech. A speaker can be connected directly to the board. CallText 5000 can also answer incoming phone calls, send a synthesized speech message, and dial outgoing calls. Three different male voices are provided.

For information about what programs designed for voice output are compatible with CallText 5000 (such as screen display to voice output programs), contact the manufacturer.



**Product Name:** CallText 5050

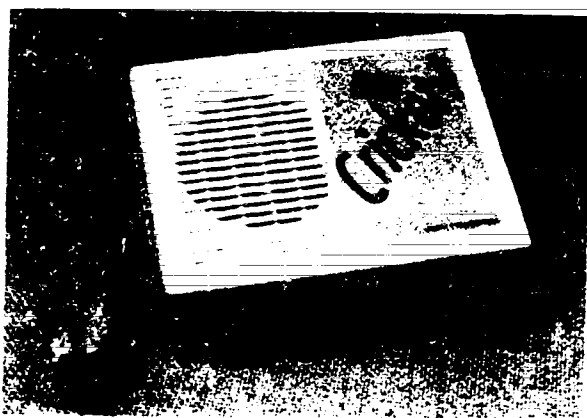
**Vendor:** Speech Plus, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$3900.00

CallText 5050 is an external module that converts output from a computer into highly intelligible synthesized English speech. CallText 5050 connects to a computer's RS-232 port, and converts the outgoing ASCII characters into speech according to its programmed rules of pronunciation. A number of special pronunciation modes, such as letter by letter or abbreviation expanding, are also possible. An external speaker can be connected directly to the unit (extra). CallText 5050 can also answer incoming phone calls, send a synthesized speech message, and dial outgoing calls. Three different male voices are provided.

For additional cost, the system can be adapted to handle up to five channels of data input/output (for example, five different phone calls). For information on how CallText 5050 can be used for voice output for particular programs, contact the manufacturer.



**Product Name:** Cricket

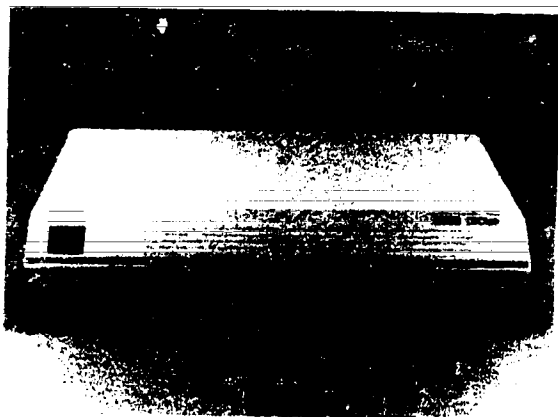
**Vendor:** Street Electronics Corporation

**Computer:** Apple IIc

**Cost:** \$149.95

Cricket is a speech synthesizer for the Apple IIc. The Cricket is an external unit with a built-in speaker. Two voices are provided: a natural sounding female voice with a limited vocabulary (700 words) and a robotic voice with an unlimited vocabulary (works by pronunciation rules). The Cricket has a built-in clock, external volume control, and headphone jack. Simple commands are used to control the rate of speech (regular or fast), output mode (spoken, printed to the screen, or both), and how the text is read (letter by letter, word by word; how much punctuation is spoken). The Cricket also has music and sound effects capabilities.

The Cricket functions with many different programs. See other entries or consult the manufacturer.



**Product Name:** DECtalk

**Vendor:** Digital Equipment Corporation

**Computer:** All (Hardware Independent)

**Cost:** \$4000.00 - 24000.00

DECtalk is a full-featured voice synthesizer compatible with most computer systems. DECtalk offers six different voices (both male and female, child and adult) and more natural sentence rhythm and intonation. DECtalk converts text sent from the host computer to a pronunciation code using a combination of dictionaries and letter-to-sound rules. DECtalk then takes into consideration surrounding words and their effects on individual pronunciations. Rate of speech is adjustable from 120 to 350 words per minute. DECtalk provides a user-specified dictionary for commonly used acronyms, trade terms, and special words. DECtalk may "speak" through its internal speaker, headphones, an external speaker, or over the telephone.

DECtalk accepts input from any computer through a standard RS-232C communications port. For a demonstration of DECtalk over the telephone, interested parties call (617) 493-TALK.



**Product Name:** Echo +

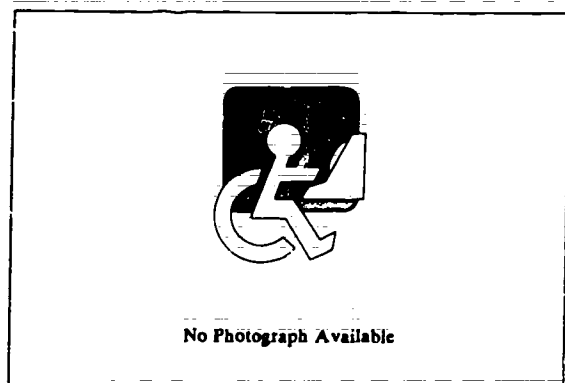
**Vendor:** Street Electronics Corporation

**Computer:** Apple II+, Apple IIe

**Cost:** \$149.00

Echo + is a speech synthesizer for the Apple IIe and II+. The Echo + consists of an internal circuit card with a speaker. The Echo + has two voices: a natural sounding female voice with a limited vocabulary (700 words) and a robotic voice with an unlimited vocabulary (works by pronunciation rules). Simple commands are used to control the rate of speech (regular or fast), output mode (spoken, printed to the screen, or both), and how the text is read (letter by letter, word by word; how much punctuation is spoken). Pitch and volume are also adjustable, and a headphone jack is provided. Sound and music capabilities are also featured.

The Echo + is a descendent of the original Echo II, and will work with Echo II software. The Echo + requires 64K of memory (128K for the female voice), and comes with a number of demonstration and utility programs. Many voice output programs are compatible with the Echo +; see other entries or consult the manufacturer.



**Product Name:** Echo GP

**Vendor:** Street Electronics Corporation

**Computer:** All (Hardware Independent)

**Cost:** \$249.95

Echo GP (general purpose) speech synthesizer is an external unit that connects to a computer's RS-232 serial port. The Echo GP comes with a single robotic voice with unlimited vocabulary. Text is spoken according to a set of phonetic rules built into the GP's microprocessor. Simple commands are used to control the rate of speech (regular or fast), output mode (spoken, printed to the screen, or both), and how the text is read (letter by letter, word by word; how much pronunciation is spoken). Pitch and volume levels are also adjustable. The Echo GP has a built-in speaker, an external volume control, and a 1,700 character buffer that allows the computer to send output to the synthesizer faster than the synthesizer can speak it.

The Echo GP connects to a computer's RS-232 serial port, and is compatible with virtually any computer so equipped.



**Product Name:** Echo PC2

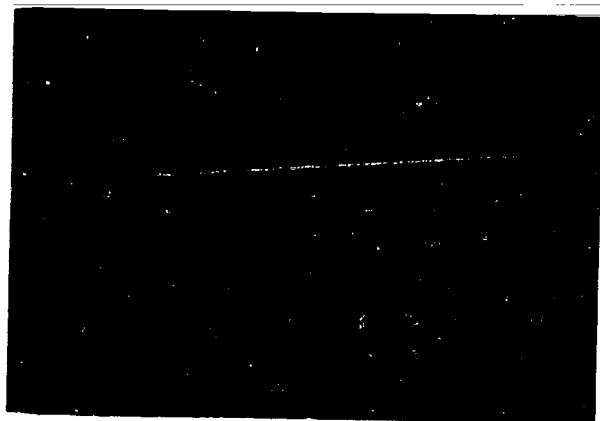
**Vendor:** Street Electronics Corporation

**Computer:** IBM PC family

**Cost:** \$149.95

Echo PC2 is a speech synthesizer for the IBM-PC. The Echo PC2 consists of an internal circuit card and a speaker. The Echo PC2 is provided with two voices: a natural sounding female voice with a limited vocabulary (700 words) and a robotic voice with an unlimited vocabulary (works by pronunciation rules). Simple commands serve to control the rate of speech (regular or fast), output mode (spoken, printed to the screen, or both), and how the text is read (letter by letter, word by word; how much pronunciation is spoken). Pitch and volume are adjustable, and a headphone jack is provided.

The Echo PC2 works with most IBM compatibles and will fit into the PC XT's short slots. Some software is included; for information about whether particular special software (such as a screen reading program) is designed to work with the Echo PC2, contact the software manufacturer.



**Product Name:** Intex-Talker

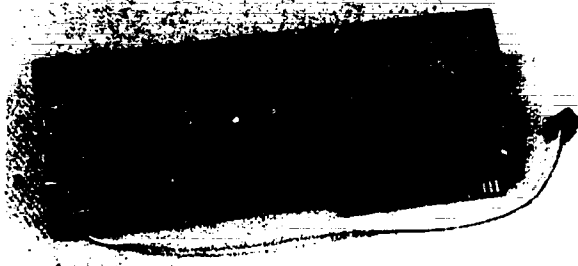
**Vendor:** Intex Micro Systems Corporation

**Computer:** All (Hardware Independent)

**Cost:** \$345.00

Intex-Talker is a text-to-speech synthesizer that can pronounce phonemes, letters, words, lines, or whole bodies of text. Intex-Talker has variable pitch and intonation, and can produce musical tones. This synthesizer recognizes all ASCII characters, and can speak punctuation if desired.

Intex-Talker works with any computer having RS-232C or serial or parallel ASCII as output. Options include a 27K buffer, an 8K user-programmable memory, a 16K vocabulary module, and a built-in speaker (all extra).



**Product Name:** Mockingboard

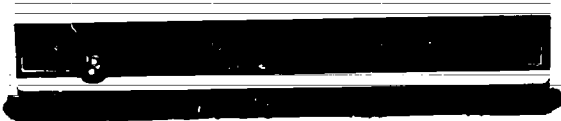
**Vendor:** Sweet Micro Systems

**Computer:** Apple II family

**Cost:** \$124.95 - \$195.00

Mockingboard is a self-contained speech synthesizer for the Apple II family of computers. Mockingboard also offers full music capabilities (six voices simultaneously over an eight octave range). Mockingboard will pronounce text word-by-word or letter-by-letter as the user desires. Voice qualities may also be adjusted to suit the individual user.

Different versions of the Mockingboard are available with various features and for different Apple II-series computers. Contact the manufacturer for details, and for information on software written for the Mockingboard.



**Product Name:** Personal Speech System

**Vendor:** Votrax International, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$449.00

Personal Speech System (PSS) is a self-contained external speech synthesizer that connects to the serial or parallel port of a computer. Data sent to that port goes to the PSS as it would normally go to a printer, and comes out as synthesized speech from the system's internal speaker. Pronunciation is determined by phonetic rules programmed into the PSS. Optional phonetic rules for exceptions and abbreviations may be programmed in by the user, and text may be sent in standard orthographic or special phonetic spellings. The PSS has music capabilities. A 3,500 character buffer is provided, so that no delay in speech transmission occurs. Inflection, rate and amplitude of the speech are all adjustable.

The PSS also has its own auxiliary serial and parallel ports, so a printer can remain connected while the PSS is hooked up. Contact the manufacturer about voice-output software written for the PSS.



**Product Name:** Slotbuster

**Vendor:** RC Systems, Inc.

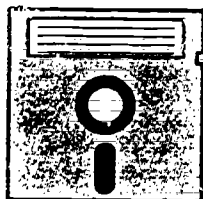
**Computer:** Apple II+, Apple IIe, Apple II family

**Cost:** \$179.95 - \$229.95

Slotbuster is a multifunction circuit card that will fit in any expansion slot of the Apple II, IIe, or II+. Slotbuster can function as a speech synthesizer, a serial printer port (RS-232C), and a character buffer. The speech synthesizer has built-in firmware that provides the phonetic rules for English pronunciation; an auxiliary set of up to 1,000 rules can be created and stored by the user. The synthesizer can speak text by the word, by the character, or phonetically, and the sound can come through the internal Apple speaker or through an external speaker (not included). Various features of speech are adjustable, including articulation, inflection, vocal tract frequency, glide, pitch, rate, volume, punctuation level, and video echo on/off. The serial printer port functions as a standard RS-232C port does; a parallel printer port is also available. The buffer holds at least 8,000 characters and up to 24K of output so that those characters can be fed to a printer or the synthesizer while the computer is used for other tasks.

Slot-Buster is available for \$229.95 with or for \$179.95 without the synthesizer. Options include 8K or 16K additions to the buffer's memory.

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**Product Name:** SmoothTalker

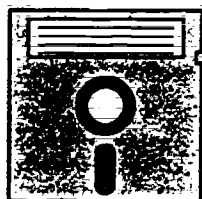
**Vendor:** First Byte, Inc.

**Computer:** Apple Macintosh

**Manual Form:** Printed

**Cost:** \$99.95

Smooth Talker is a high quality text-to-speech synthesizer for a Macintosh computer. Smooth Talker can proofread out loud most of the material in documents produced by word processing, spreadsheet, and database documents, as well as BASIC programs. It does not, however, operate at the same time as any of these programs. SmoothTalker provides capabilities for either male or female voices and has intonation rules based on sentence structure. SmoothTalker takes advantage of the advanced sound system in the MacIntosh and therefore needs no hardware other than the MacIntosh itself to produce synthesized speech.



**Product Name:** Software Automatic Mouth (SAM)

**Vendor:** Tronix Publishing, Inc.

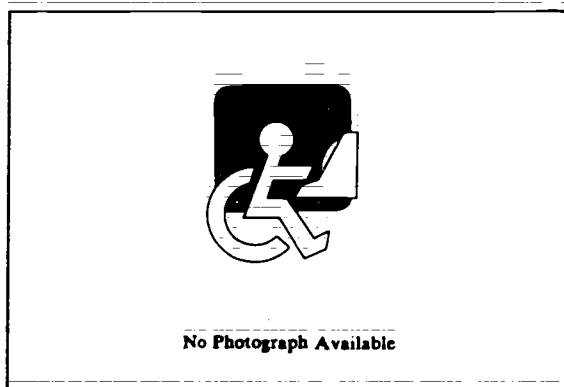
**Computer:** Apple II family, Atari 800, Atari 800XL, Commodore 64

**Manual Form:** Printed

**Cost:** \$59.95 - \$99.95

Software Automatic Mouth is a speech synthesizer in the form of an internal circuit card with a speaker mounted on it. The card plugs into an expansion slot in the computer, and converts characters that go to the computer's monitor into English speech, according to pre-programmed phonetic rules. Phonetic spelling can also be used. Separate speed, pitch, and inflection controls are provided. A disk containing the documentation and rules for phonetic spelling is included.

Software Automatic Mouth includes both a disk and a circuit card for the Apple II series. For the Atari 800, 800XL, and Commodore 64, the SAM includes only a disk; an external circuit card is not needed because of the advanced sound circuits in these computers.



**Product Name:** Super Voice

**Vendor:** Speech Systems: Illinois

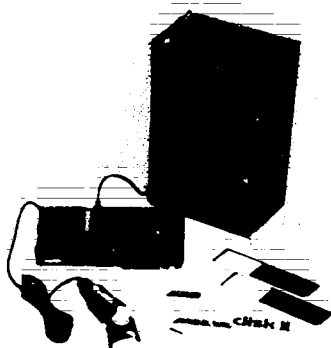
**Computer:** TRS-80 Color

**Cost:** \$79.95

Super Voice is a speech synthesizer for the Tandy Color Computer. Super Voice is capable of speech, singing, and sound effects. 16 speaking speeds, 16 volume levels, 8 articulation rates, 255 vocal tract filter settings, 64 phonemes, and 8 inflection speeds are offered.

Memory of 32K and some special adapter cables are required. If purchased with Ears system (see entry) price for Super Voice is discounted to \$59.95. Contact the manufacturer.





**Product Name:** Supertalker

**Vendor:** Mountain Computer

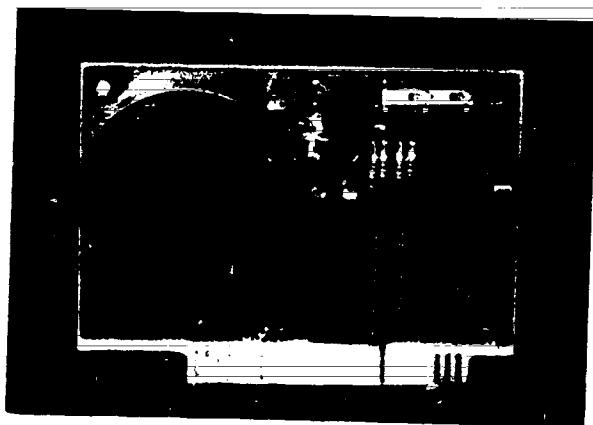
**Computer:** Apple II family, IBM PC family

**Cost:** \$199.00

Supertalker is a hardware and software package designed for adding speech output to programs. The hardware component consists of an internal circuit card and a microphone. The user speaks phrases into the microphone, and the system processes this speech into a digital pattern which can be stored in the card's memory system or on a disk. The software provided offers the user utility programs for adjusting how the sound is stored and for adding the spoken phrases at desired points in a program (verbal prompts, etc.). BASIC computer commands may also be used to call up stored phrases. About 120 seconds of speech can be stored on a standard diskette. Voice output is through a built-in speaker.

Supertalker is not a speech synthesizer. Instead of using programmed phonetic rules to create artificial speech from text, the Supertalker digitizes, or digitally records, phrases that are spoken into it, much like a tape recorder. Each phrase to be played back must first be recorded. Speech quality is adjustable by changing the amount of digitization done to the speech sample. Two models are available, Supertalker SD200 (Apple II) and Supertalker II (IBM-PC).

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**Product Name:** SynPhonix 100

**Vendor:** Artic Technologies

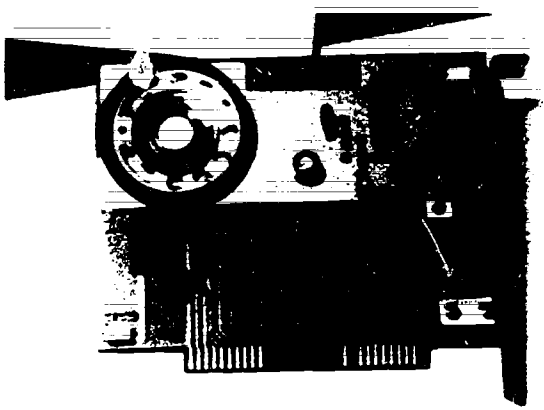
**Computer:** Apple II family

**Cost:** \$155.00 - \$1250.00

The SynPhonix 100 is a speech synthesizer for the Apple II family of computers. The SynPhonix 100 offers unlimited vocabulary of phonetic synthesized speech. The device may also be used to produce music, simulate singing, and produce sound effects. Various characteristics of the speech, including rate, pitch, and amplitude are adjustable. The SynPhonix 100 is an internal circuit card for the Apple II. Voice output may be made through the SynPhonix speaker, the Apple's internal speaker, or any external speaker.

Various software comes with the SynPhonix 100, including programs for text-to-speech, creating fixed vocabulary files, and a demonstration program. Optional programs available at extra cost include programs for creating and managing vocabularies. A version of Artic Screen Reader, a screen reading and navigation program (see entry), is available in a package with the SynPhonix 100. The cost with the Artic Screen Reader included is \$1250.00.





**Product Name:** SynPhonix 200

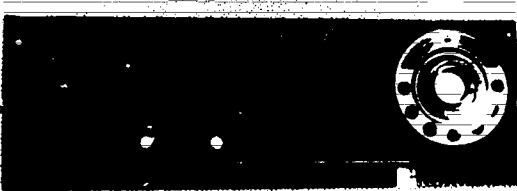
**Vendor:** Artic Technologies

**Computer:** IBM PC AT, IBM PC family

**Cost:** \$225.00

The SynPhonix 200 is a speech synthesizer on an internal circuit card for the IBM-PC and compatibles. The SynPhonix 200 offers an unlimited vocabulary of phonetic synthesized speech. The device may also be used to produce music, simulate singing, and produce sound effects. Various characteristics of the speech are adjustable, including rate, pitch, and amplitude. Voice output may be made through the SynPhonix speaker or any external speaker.

Various software comes with the SynPhonix 200 including programs for text-to-speech, creating fixed vocabulary files, and a demonstration program. Optional programs available at extra cost include programs for creating and managing vocabularies, and PortTalk, which allows output to be routed to the SynPhonix 200 as if it were a printer. Artic Vision, a screen reading and navigating program (see entry), is available for the SynPhonix 200.



**Product Name:** Synphonix jr

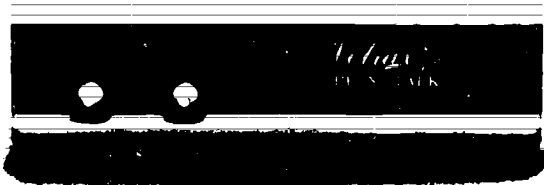
**Vendor:** Artic Technologies

**Computer:** IBM PC jr

**Cost:** \$175.00

The SynPhonix jr is a speech synthesizer for the IBM-PCjr. The SynPhonix jr offers unlimited vocabulary of phonetic synthesized speech. The device may also be used to produce music, sound effects, or simulate singing. Various characteristics of the speech are adjustable, including rate, pitch, and amplitude. The SynPhonix jr is a circuit card which fits into the internal modem slot of the IBM-PCjr. Voice output may be made through the SynPhonix speaker or an external speaker.

Various software comes with the SynPhonix jr, including programs for text-to-speech, creating fixed vocabulary files, and a demonstration program. Optional programs available at extra cost include programs for creating and managing vocabularies, and PortTalk, which routes output to the SynPhonix as if it were a printer.



**Product Name:** Type-'N-Talk

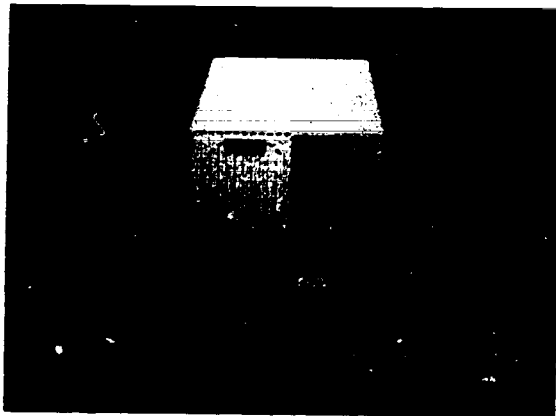
**Vendor:** Votrax International, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$299.00

Type-'N-Talk is a self-contained speech synthesizer that connects to a computer's serial port. Output can be routed to the Type-'N-Talk just as it is frequently routed to a printer or a monitor. Any characters sent to the Type-'N-Talk will be spoken as English words, according to the synthesizer's built-in rules of pronunciation. Text may be sent in either standard orthographic or phonetic spellings. A 750 character buffer is provided, allowing for no delay in voice transmission. Volume and frequency of speech are adjustable.

Contact the manufacturer for information about software written for use with the Type-'N-Talk.



**Product Name:** Ufonic Voice System

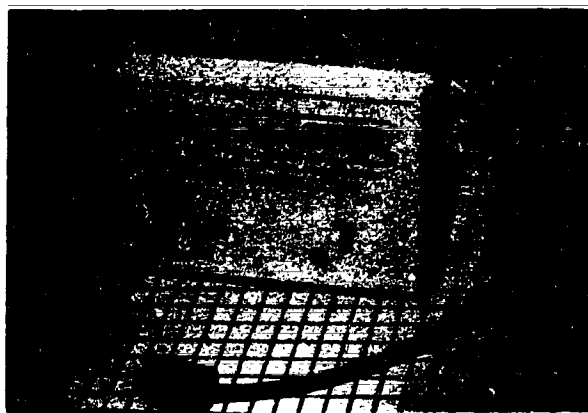
**Vendor:** Josten's Learning Systems

**Computer:** Apple II family

**Cost:** \$350.00 - 495.00

Ufonic Voice System is a combination of an internal circuit card and external audio amplifier that provides digitized speech output for software. The circuit card fits into any available expansion slot in an Apple II or IIfx.

Ufonic is available without the external amplifier, in which case listening must be done with headphones. Ufonic operates only with a special line of compatible educational software (extra); contact manufacturer for details.



**Product Name:** Voice Master

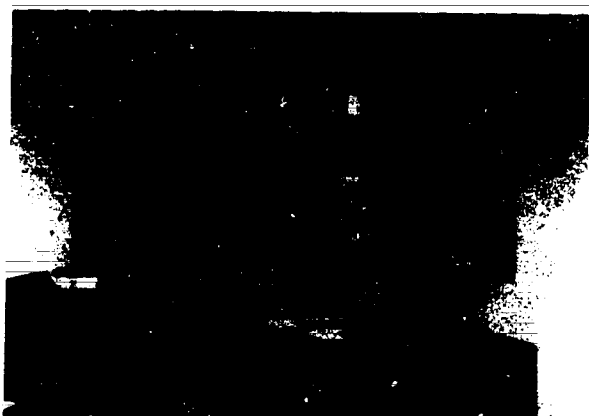
**Vendor:** Covox, Inc.

**Computer:** Apple II family, Atari,  
Commodore 128, Commodore 64

**Cost:** \$89.95

Voice Master is a hardware/software system that allows speech to be added to programs. Words or phrases to be reproduced are spoken into a microphone, and the hardware component (the speech and music processor) converts the sound wave into a digital pattern (speech digitization, not speech synthesis). This digital pattern can then be stored on disk, and integrated into a program so that phrases or words are spoken at particular points in the program. Music and sounds can also be stored. Once the sound is processed and stored, it may be played back without the use of the hardware component, using the computer's internal speaker. Using the software provided, the user can train the computer to recognize short utterances and accept them as input (up to 32 phrases at a time), process a melody and have it appear as musical notation, and display the voice's fundamental pitch across time in the form of a bar graph.

Voice Master is not a speech synthesizer. All sounds the user intends to play back must first be digitally recorded (digitized) before they can be played back. Voice Master plugs into the joystick adapter. Headset with earphone and microphone is included.



**Product Name:** Votalker AP

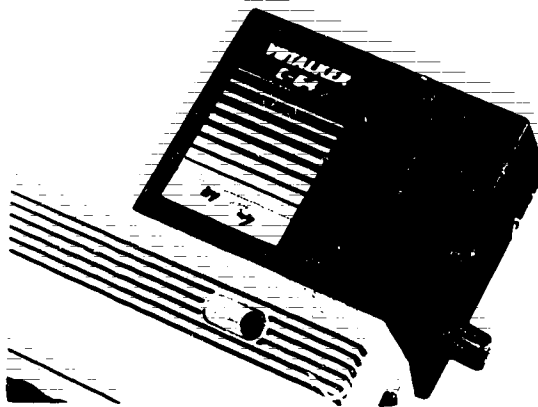
**Vendor:** Votrax International, Inc.

**Computer:** Apple II+, Apple IIe, Apple II family

**Cost:** \$179.00

Votalker AP is a speech synthesizer for an Apple II computer. The system consists of an internal circuit card with a built-in speaker and a jack for adding an external speaker if desired. The user modifies a particular program so that it routes characters to the Votalker, just as they might be routed to a monitor or a printer. These characters are then spoken as English words, according to the synthesizer's pre-programmed phonetic rules. Four different voices may be used; two may be further customized by the user. Pitch, inflection, and amplitude (volume) are adjustable. A vocabulary file is provided which can be used to store special pronunciations.

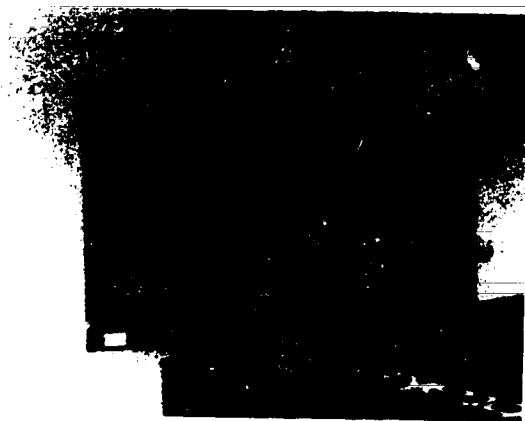
Votalker AP fits into an expansion slot in the computer.



**Product Name:** Votalker C-64  
**Vendor:** Votrax International, Inc.  
**Computer:** Commodore 64  
**Cost:** \$99.95

Votalker C-64 is a speech synthesizer for the Commodore 64 computer. The system is an external box with built-in speaker. Commands in BASIC language can be used to direct characters to be sent to the synthesizer, and also to modify the synthesizer's operation. Characters directed to the synthesizer are spoken as English words, according to the device's pre-programmed phonetic rules. Three modes of speech can be selected: conversational (punctuation not spoken), verbatim (punctuation spoken), and character (each character spoken separately). A screen echoing feature allows all text going to the monitor to be spoken as it appears. Volume and pitch are controllable with commands; an external knob on the unit is used to adjust the speech rate.

Votalker C-64 plugs directly into the Commodore 64 or Commodore 128 expansion port.



**Product Name:** Votalker IB  
**Vendor:** Votrax International, Inc.  
**Computer:** IBM PC family  
**Cost:** \$249.00

Votalker IB is a speech synthesizer for an IBM-PC, XT, AT, computers and compatibles. The system consists of an internal circuit card with a built-in speaker and a jack for adding an external speaker if desired. The user modifies a particular program so that it routes characters to the Votalker, just as they might be routed to a monitor or a printer. These characters are then spoken as English words, according to the synthesizer's pre-programmed phonetic rules. Four different voices may be used; two may be further customized by the user. Pitch, inflection, and amplitude (volume) are adjustable. A vocabulary file is provided which can be used to store special pronunciations.

Votalker IB fits into an expansion slot in the computer.

# Chapter 8

## Other Software and Hardware Adaptations

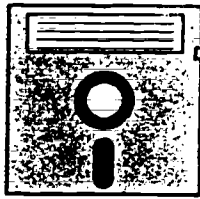
*This chapter includes miscellaneous adaptations which do not fit into the other input and output adaptations chapters and which are not, by themselves, application programs. For example, disk loaders, special desks, devices that slow computers down, print screen images, or software that will convert keyboard programs into scanning programs are found in this chapter.*

The following product entries appear in this chapter:

Apple DOS 3.3 Manual 3-129  
CompuDesk HCP 3-129  
Disk Guide 3-130  
E-Z Port Plug 3-130  
Easy-Load-A-Diskette 3-131  
Echo Enhancement Box 3-131  
Echo/Cricket Training Disk 3-132  
EZBAS 3-132  
Finger Print 3-133  
Firm Grip Joystick Holder 3-133  
Fliptrack Learning Tape Tutorials 3-134  
Florida Scanner 3-134  
Governor 3-135  
Handi-Routine 3-135  
Kennedy Switch Key Software 3-136  
Lenipen PC 3-136  
LittleJack 3-137  
Master Talker 3-137  
Modular Twin Turntable Desk 3-138  
Multi-Game Board 3-138  
Multiport 3-139  
Prairie Power Portable IIC System 3-139  
Response Optimizer 3-140  
SAYIT 3-140  
Scanning Conversion Program 3-141  
Scooter Zero Force Game Port 3-141  
Tilt Table 3-142  
Triple Dump 3-142  
Western Center Echo + Synthesizer  
Package 3-143  
Wheeled Floor Station 3-143

The following products from other chapters can also be used as Other Software or Hardware Adaptations:

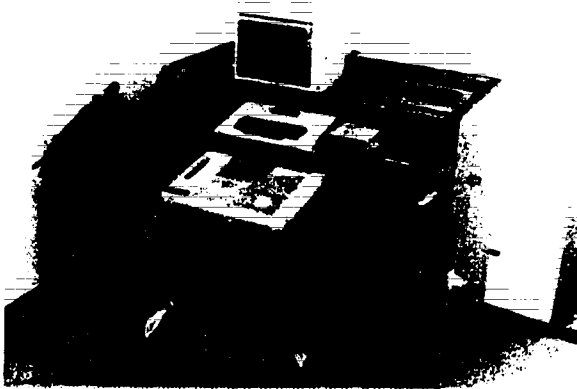
HX-20 Protective Cover 3-6  
Moisture Guard 3-14  
Moisture Guard 3-15  
Print-it 3-24  
R/S II Series Wireless Link 3-75  
SafeSkin Keyboard Protector 3-18  
Wireless Data Transmission System 3-77



**Product Name:** Apple DOS 3.3 Manual  
**Vendor:** Computers to Help People, Inc.  
**Computer:** Apple II family  
**Manual Form:** Electronic  
**Cost:** \$50.00

This DOS 3.3 Manual is presented as ASCII text files on five disks. The DOS 3.3 Manual is designed for physically disabled or visually impaired individuals who are unable to use a standard printed manual.

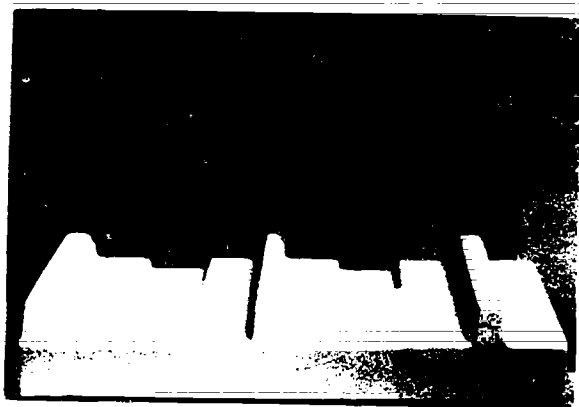
If the computer cannot display lower case (eg. Apple II+), a simple program must be written to convert the lower case letters of this DOS manual to upper case. Self-contained documentation is provided.



**Product Name:** CompuDesk HCP  
**Vendor:** R.J. Cooper & Associates  
**Computer:** All (Hardware Independent)  
**Cost:** \$999.95 - \$1199.95

CompuDesk HCP is an adjustable workstation designed specifically for the disabled computer user. The adjustable main work area cranks up and down up to twelve inches in order to accommodate a variety of wheelchair heights. CompuDesk HCP is designed so that the user's arms will be naturally positioned for increased efficiency and comfort. CompuDesk HCP will accommodate a microcomputer, a monitor, a printer, external disk drives, printer paper, an expanded keyboard, and other necessary materials.

The height of the user's chair should be specified when ordering. The non-motorized version of CompuDesk is \$999.95; the motorized version is \$1199.95.



**Product Name:** Disk Guide

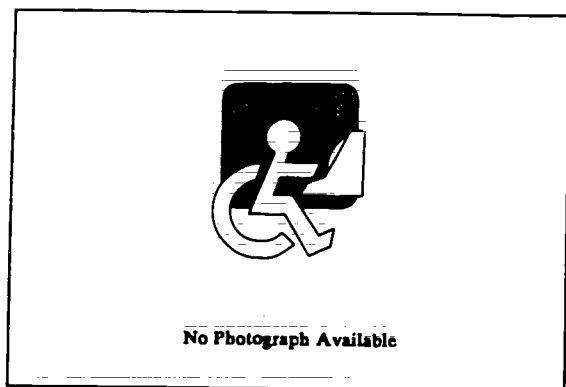
**Vendor:** TASH, Inc.

**Computer:** Apple II family

**Cost:** \$44.00

Disk Guide is a molded plastic base that rests in front of an Apple Disk drive. The guide provides a channel for a disk to be rested in while it is being slid into the drive. This guide will allow hand, foot, or mouthstick to be used to insert a disk.

Disk Guides are available in two models: one for single disk drives and one for dual.



**Product Name:** E-Z Port Plug

**Vendor:** Versa Computing, Inc.

**Computer:** Apple II+, Apple IIe

**Cost:** \$24.95

The E-Z Port Plug brings a 16 pin game port socket out of the Apple computer so that the user does not need to reach inside the computer in order to connect a device to the game port connector. E-Z Port Plug can be used with the Apple II + or the Apple IIe.





**Product Name:** Easy-Load-A-Diskette  
**Vendor:** Extensions for Independence  
**Computer:** All (Hardware Independent)  
**Cost:** \$12.00

Easy-Load-a-Diskette is a tray allowing floppy disks to be rested on a surface parallel to the opening of a disk drive and then slid into the drive. The system can be operated by most persons using hand, foot, mouthstick, or headwand for manipulation. The tray attaches to the outside of the drive with adhesive.

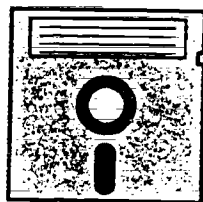
Easy-Load-a-Diskette trays come in two lengths. Options include a disk storage case (extra), wire hangers which attach to disks, and a special hook to grasp the hangers with (extra; for headwand and mouthstick users).



**Product Name:** Echo Enhancement Box  
**Vendor:** Speech Enterprises  
**Computer:** Any CP/M Computer, Apple II+,  
Apple IIe, IBM PC family  
**Cost:** \$40.00

Echo Enhancement Box is a speech accessory to be used with the Echo II or Echo+ speech synthesizers. The box plugs inside the Apple to the speaker jack, and on the other end to the speaker box where the Echo speaker plugs in; this allows external control of the Echo volume with a large knob. The Box also offers two sizes of headphone jacks, and a jack for tape recorder to store speech output.

An Echo II or Echo+ speech synthesizer is required.



**Product Name:** Echo/Cricket Training Disk

**Vendor:** Speech Enterprises

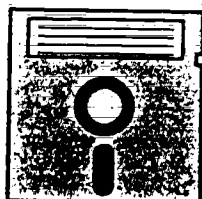
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$10.00

Echo/Cricket Disk Tutorial is a voice output training program which explains the speech controls, screen review options, and other features of the Echo II, Echo+, and Cricket synthesizers.

An Echo II, Echo +, or Cricket speech synthesizer is required if speech output is desired.



**Product Name:** EZBAS

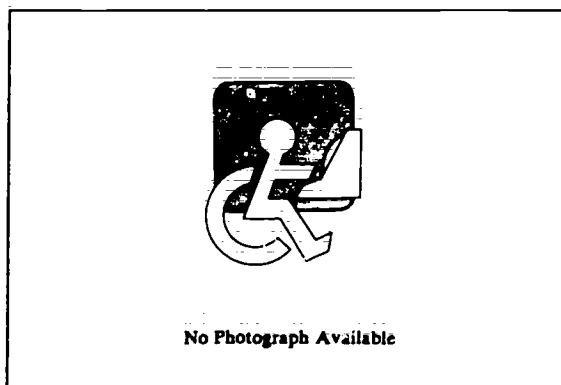
**Vendor:** ComputAbility Corporation

**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$165.00

EZBAS is an authoring program that allows the user to insert single switch input commands into BASIC programs. Contact manufacturer for information about switch interfaces, switches, and joysticks compatible as input in conjunction with EZBAS commands.



**Product Name:** Finger Print

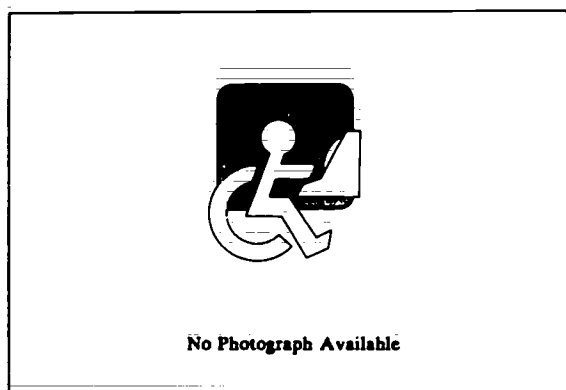
**Vendor:** CompTech Systems Design

**Computer:** Apple IIc, Apple IIe

**Cost:** \$149.00 - \$177.00

Finger Print is a program that allows the contents of the screen to be printed at any point in a program. Finger Print consists of an internal circuit card for the computer with a button wired to it. The button can be mounted in a convenient place outside the computer. Pressing the button causes a menu to pop up on the screen, offering the user various printing options, including cropping, magnification, color changes, and saving screen image to or display from the disk.

Finger Print will work with both serial and parallel printers, and will support color printers as well.



**Product Name:** Firm Grip Joystick Holder

**Vendor:** Psychological Software Services, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$40.00

The Firm Grip Joystick Holder was designed to allow easy use of the joystick for persons with limited or no use of one hand. Two straps hold the joystick in place, while four suction cups on the bottom of the device secure it to a flat surface in front of your computer. An optional plexiglass undersheet (\$20.00) provides a workspace and assures a good hold for the suction cups.



**Product Name:** Fliptrack Learning Tape  
Tutorials

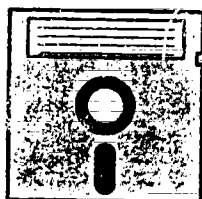
**Vendor:** Speech Enterprises

**Computer:**

**Cost:** \$57.00 to \$95.00

The Fliptrack Learning Tapes are a series of audio "how to" courses for the computer user. These tutorials cover everything from "how to Use an IBM-PC" to "Using MS-DOS" to a wide variety of instruction in popular word processing and software packages. Although these tapes were not developed specifically for disabled persons, they are helpful for persons who have difficulties reading or handling printed materials.

For a complete listing of Fliptrack courses available, contact Speech Enterprises.



**Product Name:** Florida Scanner

**Vendor:** Rushakoff, G.E.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$45.00

Florida Scanner is a utility program designed to assist programmers in modifying or creating Applesoft programs that may be operated by a single switch. Florida Scanner includes a scanning subroutine, a single switch menu program, and a sample single switch game.

A single switch plugged into the Apple's game port is required to operate programs converted with the Florida Scanner.



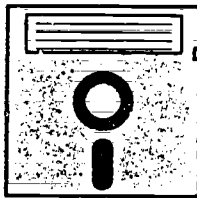
**Product Name:** Governor

**Vendor:** TASH, Inc.

**Computer:** Apple II+, Apple IIe

**Cost:** \$198.00

Governor is a speed control card to slow down computer games. Once the card is installed, the speed at which the various game functions run can be set by entering certain characters on the computer's keyboard. The Governor unit measures 8" x 3" x 0.5" and weighs 0.33 lbs.



---

**Product Name:** Handi-Routine

**Vendor:** ComputAbility Corporation

**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$55.00

Handi-Routine allows the user to simulate keyboard entry to any Applesoft Basic program with one to three switches. Input is entered via a simple step scanning routine. As selections are made, they are displayed at the bottom of the screen. Handi-Routine is a conversion program, and does not allow keyboard input to programs after conversion.

A switch interface and one to three switches are required to operate programs converted with Handi-Routine.



**Product Name:** Kennedy Switch Key Software

**Vendor:** Kennedy Memorial Hospital for  
Children Education Dept.

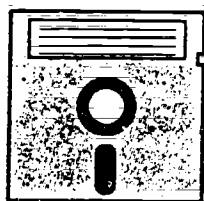
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$100.00

The Kennedy Switch Key Software Program represents a user-friendly enhancement of the link between the Adaptive Firmware Card and the Unicorn Expanded Keyboard for flexible, alternative Apple IIe computer access by individuals for whom use of a scanning-switch system or standard keyboard is impossible or tediously inefficient due to combined physical/motor, visual/perceptual and/or cognitive/memory difficulties. The program allows teachers and clinicians to design and store a virtually unlimited number of direct selection input devices in the form of customized keyboards or switchboards tailored to the specific needs and skills of the user and the input requirements of the commercial software intended for use. Kennedy Switch Key Software simplifies the process of keyboard reconfiguration, making it easier to quickly design custom-tailored keyboards that allow the use of standard educational software by multi-handicapped clients.

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**Product Name:** Lenipen PC

**Vendor:** Duncan-Atwell Computerized  
Technologies, Inc.

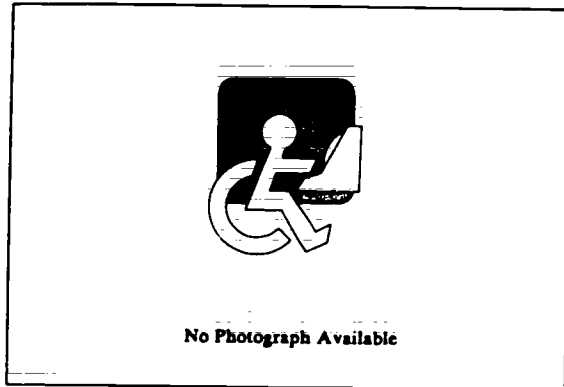
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$495.00

Lenipen PC is a system that allows various input methods to be used to create color graphics on the computer screen. Programs provided allow for animation, flowcharts, organizational charts, computer-aided design, graphic database presentation, and an "Executive Presentation Facility" for aiding in video production. The various input devices that can be used are the Lenipen Light Pen (included), the Microsoft Mouse, Logimouse, the KoalaPad touch tablet, joystick, and the standard keyboard. Simulated examples of techniques are provided.

The Lenipen system is compatible with any Epson compatible dot-matrix printer, and Quadjet, IBM and IDS color printers. A color graphics card is required. The cards Lenipen supports include the IBM Enhanced Graphics Card (EGA).



**Product Name:** LittleJack  
**Vendor:** Speech Enterprises  
**Computer:** Apple II+, Apple IIe  
**Cost:** \$24.95

LittleJack is a computer headphone set for Apple II, II+ and IIe computers. The headphone allows one user to listen to computer output without disturbing others, and can be easily unplugged for normal computer sound.



**Product Name:** Master Talker  
**Vendor:** SEI (Sliwa Enterprises, Inc.)  
**Computer:** Apple II family  
**Manual Form:** Electronic, Printed  
**Cost:** \$45.00

Master Talker is a program that adds voice output to Sliwa Enterprises' line of educational software for the Apple II family. Master Talker is loaded before the other software product, and modifies it so that it can be used by someone who cannot see the screen. Text can be spoken by the letter or by the word, and speech can be sped up, slowed down, interrupted, and increased or decreased in volume by the user.

Master Talker is designed to be used specifically with a line of educational software made by Sliwa Enterprises, Inc. A utilities option is provided that can help add voice to certain other programs. A speech synthesizer compatible with the computer used is required to run Master Talker. Contact the manufacturer.



**Product Name:** Modular Twin Turntable Desk

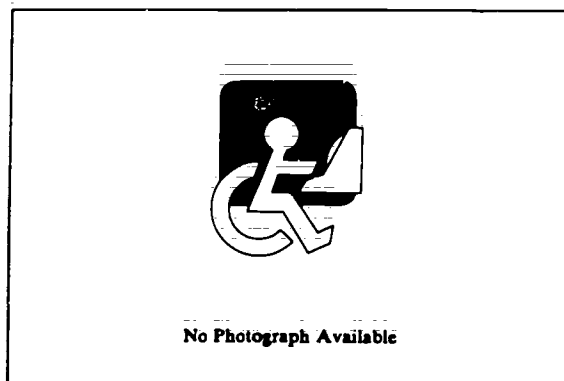
**Vendor:** Extensions for Independence

**Computer:** All (Hardware Independent)

**Cost:** \$715.00 - \$1,195.00

Modular Twin-Turntable Desks are U-shaped tables with two large turntables built into them. The turntables can be easily rotated by a non-functional hand or mouthstick to give the user access to any object on either table without excessive reaching.

Smaller Single-Turntable Desks are also available.



**Product Name:** Multi-Game Board

**Vendor:** KY Enterprises/Custom Computer Solutions

**Computer:** Atari 2600

**Cost:** \$50.00

Multi-Game Board is a single button that allows the user to change between up to eight computer games on a cartridge by operating a single button. The Multi-Game Board measures 15" x 5", and uses a 9-pin DIN jack. Approximately 1 oz. of pressure is required to activate the switch.

Contact manufacturer for more information or details concerning this product.





**Product Name:** Multiport

**Vendor:** Psychological Software Services, Inc.

**Computer:** Apple IIc, Apple IIe, IBM PC family

**Cost:** \$60.00

Multiport is a game peripheral port adapter that allows the user to select between different game control devices with a single switch, without unplugging different devices. Three devices can be switch selected on the Apple computers and two devices on the IBM.



**Product Name:** Prairie Power Portable IIc System

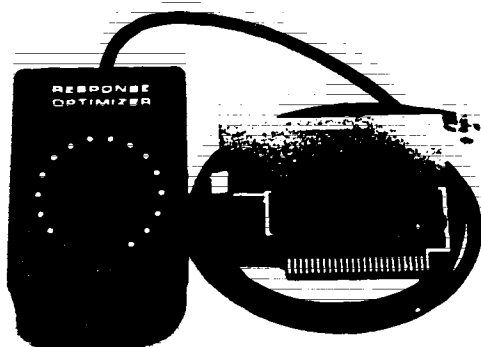
**Vendor:** Lind Electronic Design

**Computer:** Apple IIc

**Cost:** \$150.00

Prairie Power Portable IIc System is a package that allows an Apple IIc to be carried like a brief case and used independent of external power (i.e., wall outlets). The package consists of a case, a 12V rechargeable battery pack, a battery charger, and connecting cables. A thin flat LCD display screen that serves in place of a video monitor must be purchased separately. The display stores in a pocket in the case for travel and stands at an angle on top of the computer for use. The system with the display will operate for up to 8 hours on a charge. Audible signals are provided which warn the user when power is running low. Voltage protection circuitry is provided to prevent overcharging and to protect the memory.

The Prairie Power Portable IIc System does not come with the IIc computer.



**Product Name:** Response Optimizer

**Vendor:** Icon Peripherals

**Computer:** Apple II family

**Cost:** \$95.00

Response Optimizer is a device that slows down the Apple computer to match individual user needs. The Optimizer consists of an internal circuit card and an external control box, and is transparent to all software programs.



**Product Name:** SAYIT

**Vendor:** Baysik Speech

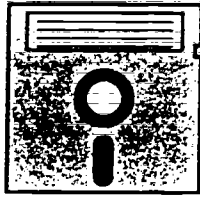
**Computer:** TRS-80 Model I, TRS-80 Model III

**Manual Form:** Printed

**Cost:** \$125.00

SAYIT adds a "say" command and four speech modes to TRS-80 basic so that any program may be modified to "speak" desired messages. Speech modes include Type 'N' Talk: text-to-speech, soundspelling, modified IPA, and talking keyboard. Speech modes may be used alone, in any combination, or all concurrently. All standard printable ASCII characters may be pronounced with soundspelling. Modified IPA may be used to speak foreign languages. A Spanish version of SAYIT is available.

A Votrax Type 'N' Talk speech synthesizer is required to operate SAYIT.



**Product Name:** Scanning Conversion Program

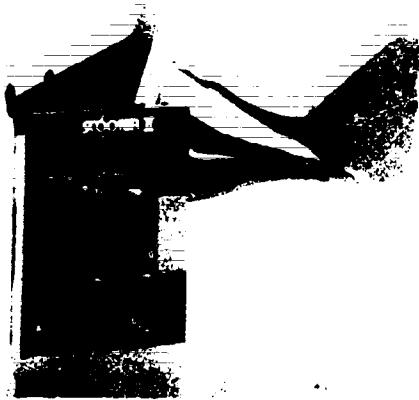
**Vendor:** First Broward Development

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$94.00

Scanning Conversion Program is used with modified Applesoft programs that accept input from the standard keyboard so that they may be operated by a single switch. A disk with seven Applesoft games already modified for use with scanning is included with purchase. A scanning array with user adjustable rate is incorporated into the modified programs. Manufacturer can modify additional Applesoft game programs for a separate fee (contact manufacturer for details).



**Product Name:** Scooter Zero Force Game Port

**Vendor:** Ohm/Electronics

**Computer:** Apple IIe, Apple II family

**Cost:** \$22.50 - \$38.50

Scooter Zero Force Game Port is an alternate I/O game port. Game paddles, etc. are plugged into zero force by placing the plug in Zero Force's socket (Zero Force offers no resistance) and flipping a lever to lock the plug in place. A two foot cable allows the port to be mounted at the front of the computer.

Scooter Zero Force Game Port comes in two models: one with one socket and one with two sockets. The two socket model will not operate with the KoalaPad.



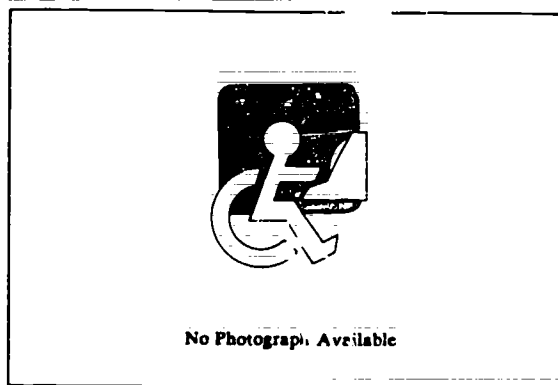
**Product Name:** Tilt Table

**Vendor:** Developmental Equipment

**Computer:** Apple II family

**Cost:** \$69.50

The Tilt Table increases the visibility and accessibility of the computer keyboard. The Tilt Table slants the keyboard toward the user allowing better access for users in wheelchairs. The angle of the slant is adjustable. This table is designed for use with the Apple II series of computers.



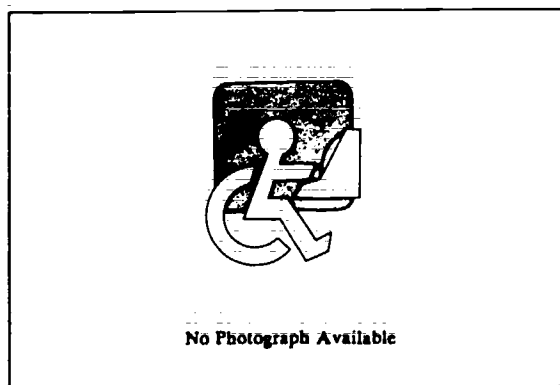
**Product Name:** Triple Dump

**Vendor:** CompTech Systems Design

**Computer:** Apple IIc, Apple IIe

**Cost:** \$39.95

Triple Dump is a program that allows the user to print graphics or text to a black-and-white dot-matrix printer from the disk. Options include the ability to crop, scale, rotate, and magnify pictures and text.



**Product Name:** Western Center Echo + Synthesizer Package

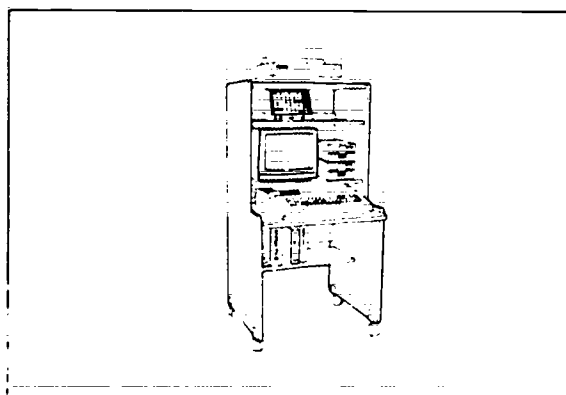
**Vendor:** Western Center for Microcomputers in Special Education

**Computer:** Apple II family, IBM PC family

**Cost:** \$199.00 - \$245.00

The system from Western Center consists of the Echo + speech synthesizer from Street Electronics (see separate entry) with an external speaker unit that incorporates three high-quality speakers and provides knobs for both volume and pitch control. The speaker unit contains headphones and a headphone jack.

The Echo + can be used with the Apple II+ or Apple IIe, or IBM PC family. Two models are available for the Apple for different prices: one has a single knob for external volume control (\$199.00) and the other has both volume and pitch controls (\$245.00). The IBM-PC model comes with only external volume control (\$245.00).



**Product Name:** Wheeled Floor Station

**Vendor:** Zygo Industries, Inc.

**Computer:** All (Hardware Independent)

**Cost:** \$500.00

Wheeled Floor Station is a wood-grain laminated wooden cabinet designed to hold a complete computer system. Two adjustable height shelves and a handle for pulling are provided. Casters mount the device.

## Chapter 9

# Administration and Management Software

*This chapter includes software application programs that deal with the administration or management functions of rehabilitation or special education professionals. Programs must be specifically designed for rehabilitation or special education professionals, and include IEP programs, reporting, charting, tracking, organizing and matching (e.g., job matching) activities.*

*Related function codes found in the cross reference index include Analysis and Reporting (AR), Individual Education Planning (IE), Vocational (VO), Language Therapy (LT) and Speech Therapy (ST).*

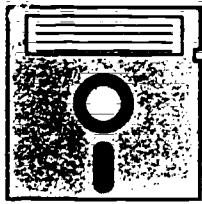
*Appendix A includes an information summary about other Software Resources.*

The following product entries appear in this chapter:

Ability-Achievement Discrepancy 3-147  
AIMstar 3-147  
Articulation Error Analysis 3-148  
Articulation Error Analysis (AEA) 3-148  
Articulator: Goals and Objectives for Speech 3-149  
ASIEP Computer Scoring and Interpretation 3-149  
Automated IEP System and Professional Goal Banks 3-150  
Automated IEP System and SCOR Goal Banks 3-150  
Child Placement Report Writer 3-151  
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Compuscore: For the Scales of Independent Behavior 3-152  
DPS:Decision Pathing System 3-152  
DPS:HELP 3-153  
ESS Rehabware 3-153  
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IEP Manager, Revised 3-155  
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Language Intervention Planner 3-158  
Parrot Easy Language Sample Analysis (PELSA) 3-158  
PEPPER 3-159  
PIAT Error Analysis Report 3-159  
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SALT Automatic Analysis of Language Transcripts 3-161  
Sound Search II 3-162  
Stanford-Binet Computer Report (SB-CR) 3-162  
UNISTAR Pre-IEP Report 3-163  
VOC Matching and VOC Report 3-163  
WAIS-Riter 'BASIC' 3-164  
Wechsler Adult Intelligence Scale-Revised (WAIS-R) 3-164  
WISC-R Compilation: What To Do Now 3-165  
WISC-R Computer Report (WISC-RCR) 3-165  
WISC-Riter 'BASIC' 3-166  
WISC-Riter Complete 3-166  
Woodcock Reading Mastery Tests Error Analysis Report 3-167  
Word Class Inventory for School Age Children 3-167

The following products from other chapters can also be used for Administration or Management:

JOBS System 3-178



**Product Name:** Ability-Achievement  
Discrepancy

**Vendor:** Southern Micro Systems

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$89.95

Ability-Achievement Discrepancy is an assessment program for description of academic achievement. The program provides a student profile comparison of Ability Test Results and Standardized Achievement Test Results, with reports of correlation, discrepancy scores, and a lower bound score.

The program includes one program disk and one backup, one data disk (which can be copied), and user manual.



**Product Name:** AIMstar

**Vendor:** ASIEP Education Company

**Computer:** Apple II family

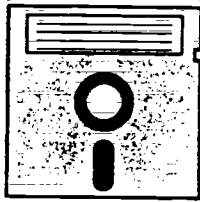
**Manual Form:** Printed

**Cost:** \$163.00

AIMSTAR is designed to reduce teacher time spent in graphing and charting data, and performing rate and error analyses. This is intended to make the daily charting used in data-based teaching techniques more efficient. Charts can be drawn to simulate a six-cycle behavior chart, behavior charts with time spans of 30-60-100 days, and provide a learning trend line for the most recent six days of data. AIMSTAR tracks program components such as skill, program, AIM date, AIM rate, program objective, antecedent, correct movement, incorrect movement, consequence for correct and for incorrect.

AIMSTAR is available for the Apple II+ and IIe. The program comes with a Demo Disk, a back-up disk, and users manual. The Demo Disk is available separately for \$19.95.





**Product Name:** Articulation Error Analysis

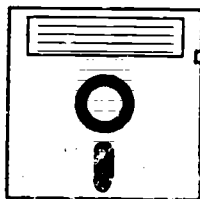
**Vendor:** Communication Skill Builders

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$89.95

Articulation Error Analysis is designed to analyze information you get from standardized tests. The report does the following: lists all errored sounds tested; calculates percentages; shows sound substitutions, distortions, and omissions for initial, medial, and final positions and lists them in order of predominance; groups errored phonemes by articulatory feature; and leaves space for written comments.



**Product Name:** Articulation Error Analysis (AEA)

**Vendor:** Southern Micro Systems

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$89.95

Articulation Error Analysis (AEA) is a test analysis program designed to objectively analyze articulation errors obtained through the use of any standard articulation instrument, or by other reliable means. Printout is 1-2 pages, depending on amount of information to be displayed.

System requires a printer compatible with the Apple II family. Program includes two disks (one is a back-up) and manual.



**Product Name:** Articulator: Goals and Objectives for Speech

**Vendor:** UNITED Educational Services, Inc.

**Computer:** Apple II family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$65.00

Articulator: Goals and Objectives for Speech is an IEP writing program that is designed to help the speech-language pathologist write simple, easy to read speech IEPs. The program generates a complete listing of goals and objectives with minimal input, based on information on the limited number of phonemes in the English language. Program requires one disk drive, 48K memory, and an 80 column printer; contact manufacturer for details.



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**Product Name:** ASIEP Computer Scoring and Interpretation

**Vendor:** ASIEP Education Company

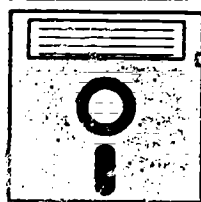
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$149.00

This program is designed to score and interpret the Autism Screening Instrument for Educational Planning. The program provides a profile for each of the five subtests. Standard scores, language age scores and percentiles are computed from raw data input. Profile charts and raw score reports can be printed out. Individual student data can be saved on a data disk.

ASIEP Computer Scoring and Interpretation Program runs on the Apple IIc, and on the Apple II+ and IIe with 80 column card. The program and the ASIEP Testing Kit can be purchased together for \$289.00.



**Product Name:** Automated IEP System and Professional Goal Banks

**Vendor:** Harding & Harris, Inc.

**Computer:** Apple II family, IBM PC family

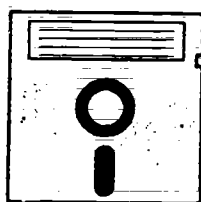
**Manual Form:** Printed

**Cost:** \$200.00

The Automated IEP manages over 120 files, merges data with student IEP's, and provides unlimited capacity to create and use goal banks and IEPs. The program has a master disk with which teacher create a master IEP form. This form can then be used as a template so that standard information does not have to be entered for every student. Student disks store student IEP's (5 students per disk in the Apple II version, 14 students per disk in the IBM version). The Professional Goal Banks component allows the teacher to create goals or use those provided. Goal Bank disks are available for Communication Disorders, Physical Therapy, and Daily Living Skills, Learning to Learn, Physical-Sensory-Motor-Perceptual, Speech-Language-Reading, Mathematics-Spelling-Handwriting, Prevocational Level 1, Prevocational Level 2.

The Automated IEP System costs \$200.00 for the Apple II family of computers, \$350.00 for the IBM-PC family of computers. Goal Bank disks are \$30.00 each for both computers, \$200.00 for the complete set. The disks are copyable and the program comes with a master disk.

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**Product Name:** Automated IEP System and SCOR Goal Banks

**Vendor:** LinguSystems, Inc.

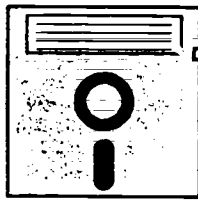
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$200.00, \$59.00

The SCOR Goal Banks (Sequential Communication Objectives for Remediation) provide goals and objectives to be used with the Automated IEP System. The system consists of five types of disks. The System Master disk is used to write diagnostics, recommendations, impressions, and IEP goals and objectives. The Screen Generator disk is used to choose from four possible IEP formats or to create a custom format. The Goal Bank Master disk is used to develop and store goals and objectives. The Rules and Regulations disk is used to generate the federal, state, and local guidelines for the user's area. Three student IEP disks are used to hold five complete student IEPs each, with goals and objectives.

The Automated IEP System is \$200.00. An additional 10 student IEP disks cost \$70.00. SCOR Goal Banks cost \$59.00.



**Product Name:** Child Placement Report Writer

**Vendor:** UNITED Educational Services, Inc.

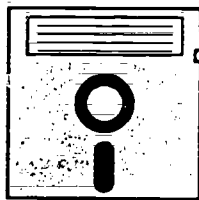
**Computer:** Apple II family, TRS-80 Model III,  
TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$65.00

Child Placement Report Writer is a program to assist in writing reports when referring students for special services. The program is designed for use in preparing comprehensive evaluation reports for children who fall into one of three handicapping conditions: learning disabled, mentally retarded, or emotionally handicapped.

The program requires one disk drive, 48K of memory, and an 80 column printer.



**Product Name:** Clinical Data Manager

**Vendor:** College-Hill Press

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$135.00

The Clinical Data Manager is a basic data calculation and patient file storage package to help speech-language pathologists, psychologists, and others involved in patient testing save time and maintain records more efficiently. The program includes preselectable calculation of high/low values, range, arithmetic mean, median, mode, percent, variance, and standard deviation. Patient data for calculation can be entered from keyboard or disk. The results of calculations can be displayed in tabular and graphic form. Unlimited numbers of patient files can be created, and all can be updated, deleted, and locked for security. Printed copies of all or part of any file are available.



**Product Name:** Compuscore: For the Scales of Independent Behavior

**Vendor:** DLM Teaching Resources

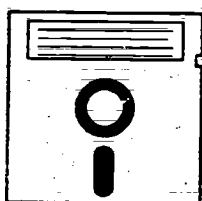
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$89.00

**Compuscore: For the Scales of Independent Behavior** is a psycho-educational assessment program for computerized scoring of standardized test. The program provides a two-page printout of raw scores, cluster scores, age scores, instructional ranges, difference scores, standard scores, percentile ranks, relative performance indexes, and functional levels based on age and cognitive ability. The program also scores the four problem behavior indexes.

The system requires two disk drives and an 80-column printer.



**Product Name:** DPS:Decision Pathing System

**Vendor:** VORT Corporation

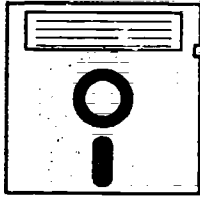
**Computer:** Apple II family, IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$195.00

The DPS-Decision Pathing System is designed for staff use in managing IEP's, preparing lesson plans and developing curriculum. It can also be used to allow students to explore and make decisions from real life choices or curriculum created by the teacher. A visual branching process lets the user progress easily through choices and decisions to reach specific objectives. Helpful hints and suggestions can be included onscreen in the curriculum lessons.

Help screens and a backup disk are included. Printouts are possible for assessment objectives, progress reports, formal IEPs, and lesson plans.



**Product Name:** DPS:HELP

**Vendor:** VORT Corporation

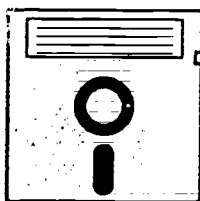
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$370.00

DPS:HELP is a software version of HELP (the Hawaii Early Learning Profile). HELP covers over 650 skills in 6 developmental areas: cognitive, fine motor, language, gross motor, social, and self-help. This computerized version provides a database program including the skills and activities from HELP. Planned and recorded progress can be charted for each child.

Contact the manufacturer for more details about the use of HELP.



**Product Name:** ESS Rehabware

**Vendor:** Easter Seal Systems

**Computer:** All (Hardware Independent)

**Manual Form:** Printed

**Cost:** \$600 - \$3500

ESS Rehabware is a series of administrative and clinical support programs written on the Informix commercial data base. The programs available are the Camp Manager, which helps with client information management and other management activities; Vocational Rehabilitation Database System, which is designed to aid with client data collection for both inpatient and outpatient service; Early Childhood Medical Rehabilitation, which evaluates program objectives, writes program plans, and tracks client progress; Neighbor-to-Neighbor Campaign, which is designed to help manage door-to-door fundraising; Comprehensive Computerized Early Childhood System, which is designed for managing aspects of the Project Memphis Model for individual program planning and evaluation; Equipment Loan Cost Recovery System; and Medical Rehabilitation System, which is a client-information tracking system to help with billing and accounting. Software operates on any Unix (Xenix) or MS-DOS compatible computers. Contact the manufacturer for information about the type of computer systems that are applicable.



**Product Name:** Explorer

**Vendor:** UNITED Educational Services, Inc.

**Computer:** Apple II family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$65.00

Explorer is a computer program that aids in the interpretation of the WISC-R. The Explorer requires two disk drives, 48K of memory, and an 80 column printer.



**Product Name:** Frenchay Dysarthria Assessment

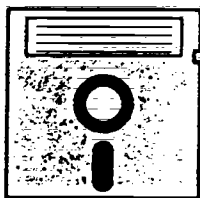
**Vendor:** College-Hill Press

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00

This program analyzes dysarthria assessment scores, compares them to stored program data, and provides a differential diagnosis for five types of dysarthria: spastic, mixed, pyramidal, cerebellar, and flaccid. The Frenchay Dysarthria Assessment software is designed to make the test faster and easier to use. The program features graphic display of patient performance profile and diagnosis.



**Product Name:** Hypernasality

**Vendor:** Harding & Harris, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$149.95

The results of an oral peripheral evaluation and the client's effort to articulate specific words are entered in the computer. This program then determines if the disorder etiology is structural or functional, lists the possible primary and secondary diagnostic conditions, and provides detailed analysis tables summarizing the results of the evaluation. Special treatment recommendations are broken down into 10 basic categories, each containing a sequential list of behavioral treatment objectives. Eight analysis tables summarize the results.



**Product Name:** IEP Manager, Revised

**Vendor:** UNITED Educational Services, Inc.

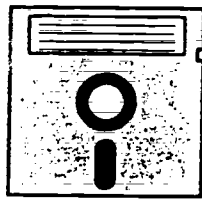
**Computer:**

**Manual Form:** Printed

**Cost:** \$443.00

IEP Manager - Revised is a computerized system that will generate individualized educational programs (IEPs) based on teacher judgment or test data. Program is designed for use with either handicapped or non-handicapped students from preschool through sixth grade, or junior high school students with learning problems. The IEP Manager uses a source of 1600 measurable objectives which cover 15 academic and social areas. The teacher selects one of 16 objectives in each area for each grade level to be printed on the IEP, adds any teacher produced objectives, and allows the program to print a complete IEP for that student. IEP Manager objectives are also available in hard copy. Contact manufacturer for details concerning computers with which IEP Manager can be used.





**Product Name:** IEP Writer

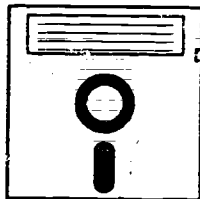
**Vendor:** Parrot Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$59.50

IEP Writer helps design and produce IEPs. The user enters items into the goals, objectives, procedures, materials, and criteria libraries. Each item entered has its own reference number. The user then prints a book of libraries to refer to when constructing IEPs. IEPs are generated by calling the library entries by number. Each IEP is personalized for the individual client with his or her own name appearing as part of the goals and objectives. Entries may be added or changed at any time.



**Product Name:** Individual Performance Graph Pak

**Vendor:** Parrot Software

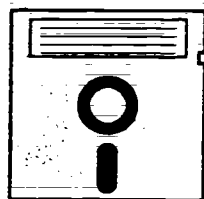
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.50

This program is designed to store and display clinical data of performance and progress. Results for up to 24 individuals may be stored. Displays of performance are presented in graphic format to the screen or a dot-matrix printer. Performance data for each individual may include up to ten different graphs with between one and three behaviors per graph. The user controls the magnitude of scores possible per graph and whether the scores will be presented as percentages, frequencies, or frequency/minute.

At least 27 different printers and 28 different interface boards are supported. Contact the manufacturer for details.



**Product Name:** Individualized Planning System

**Vendor:** Learning Tools, Inc.

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** See below

The Individualized Planning System (IPS) is the second in a series of three programs. IPS is designed to provide an interactive menu-driven and user-defined report generator. It can be used to organize, manage, access, and print data on each student or client; the capability to create IEPs is included. The first program in the series, Curriculum Management System, is a more basic program for organizing client goals and objectives. The third program, Administrative Planning System, is a more extensive system designed to be integrated with IPS. APS allows the user to sort, select, list, and count IPS information for a number of clients.

The first two programs require 128K of computer memory. The third (APS) calls for a hard disk built into the computer. The price of Curriculum Management system is \$295.00; IPS is \$895.00; APS is \$1,795.00.



**Product Name:** J-Wear Objective Mastery Report

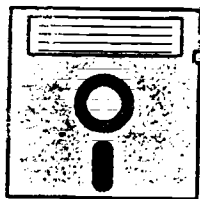
**Vendor:** UNITED Educational Services, Inc.

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$395.00

J-Wear Objective Mastery Report is an instructional management program which allows the user to monitor the progress of students based on their sequential performance on the Woodcock-Johnson Psycho-Educational Battery. The objective mastery report lists specific instructional objectives that the test results indicate the student has mastered, and also prints a set of instructional objectives projected to be mastered during the next marking period (based on student's performance on previous test). The program stores student performance records which can be updated at any time.



**Product Name:** Language Intervention Planner

**Vendor:** Parrot Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.50

LIP is a program to help a speech-language pathologist develop goals and objectives in an organized form for children with language delay. The program contains goals and objectives based on analyses of development of language content, form, and use. The goals and objectives for preverbal and early verbal utterances are based on a function, or pragmatic orientation.

Goals and objectives are selected by number and printed in a format with room to evaluate performance.



**Product Name:** Parrot Easy Language Sample Analysis (PELSA)

**Vendor:** Parrot Software

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$129.50

PELSA is designed to do a grammatical analysis of a language sample. The user types and translates a language sample of up to 100 utterances. The computer then analyzes the sample and provides the following analyses: percentage correct of specific demonstratives, locatives, pronouns, articles, conjunctions, prepositions, possessives, comparatives, superlatives, copula be, modals, past tense markers, and present progressive markers. In addition, the user is provided with a list of auxiliary + verb, infinitive, past tense, and present progressive verb forms. At the end of the analysis there is a summary table of the percentage correct of all of the above grammatical markers, number of affirmative, negative, and question sentence types, number of utterances, number of words used, and mean length of response. Other program features include: language sample editing, printout of results, printout of corpus, ability to save a corpus for later retrieval and analysis, and a tutorial for coding a language sample. Another program, Parrot Language Sample Utility allows user to modify PELSA to analyse transcript information according to any coding scheme.



**Product Name:** PEPPER

**Vendor:** Software Development & Distribution Center

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$495.00

**PEPPER:** Programs to Examine Phonetic and Phonologic Evaluation Records is a series of speech analysis programs designed to examine phonetic, phonologic, and prosodic aspects of normal and disordered speech. Speech transcripts can be entered using broad (IPA) or more narrow phonetic transcription systems for single or multiple samples. Ten analysis programs provide quantitative profiles of consonants, vowels, diphthongs, by segment, word, position, feature, and phonological process. Flexible output programs allow the user to select and order speech tokens for individualized qualitative analyses, including Structural Statistics, Percentage of Consonants Correct, a series of Articulation Tests, Natural Phonologic Process Analysis, and Word Lists. Reference data for all analyses allow client and subject profiles to be compared to profiles of other speech-normal and speech-delayed children.

Program includes four disks, phonetic keyboard template, and forms for keeping files. System requires two disk drives, dot matrix printer, and display device for an IBM PC, AT, or XT.

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**Product Name:** PIAT Error Analysis Report

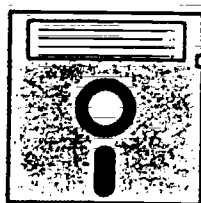
**Vendor:** UNITED Educational Services, Inc.

**Computer:** Apple II family, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$395.00

**PIAT Error Analysis Report (PEAR)** is an analysis and reporting program which provides diagnostic and instructional planning information from results of the Peabody Individual Achievement Test (PIAT). A student's performance can be analyzed on four subtest areas of the PIAT: mathematics, reading recognition, reading comprehension, and spelling. PEAR includes program disks with backups, and manual with documentation.



**Product Name:** Picapad

**Vendor:** Sunset Software

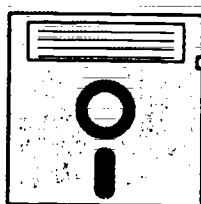
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$100 for 1 yr. lease

Picapad is a test analysis and scoring program for the language assessment test called the PICA (1981 version). The program calculates all 98 values for the PICA including subtest and modality means and percentiles, hi-lo, and peak mean difference. The Picapad also rank orders subtests, stores, and prints results of analysis.

A one year lease for Picapad costs \$100.00; lease for additional years costs \$50.00 per year.



**Product Name:** Planning Individualized Speech & Language Intervention

**Vendor:** Communication Skill Builders

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$89.95

Planning Individualized Speech and Language Intervention Programs contains the 267 objectives from the book of the same name. The goals are written for each of 29 areas categorized as: Preverbal, Early Language, Articulation, Language, Auditory Processing, Voice, and Fluency. The student's identifying information is typed in. Appropriate goals are selected and keyed in using the manual and the book (included with the software) as a guide. The computer will print them out fully. Printouts automatically put the student's name and the page number at the top of each page of objectives. Only the goals, long-range objectives, and short-term objectives chosen are listed. Room is left after each objective for notes, evaluation, the date therapy was initiated and the date accomplished.



**Product Name:** PRE-MOD II

**Vendor:** ASIEP Education Company

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$109.00

PRE-MOD II is a behavior management diagnostic tool for the Apple II series of computers. The program takes a cognitive as well as a behavioral approach to behavior management. The teacher or specialist responds to a series of questions about a student's behavior. The program provides performance objectives and suggests specific interventions.

The PRE-MOD II includes a Users Manual, program and back-up disks, and test sheets.



**Product Name:** SALT (Systematic Analysis of Language Transcripts)

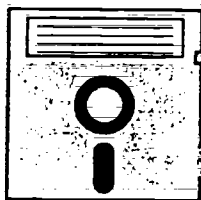
**Vendor:** Language Analysis Lab, Waisman Center

**Computer:** Apple II family, IBM PC AT, IBM PC family

**Manual Form:** Printed

**Cost:** \$395.00

SALT is a language analysis tool with many coding and analysis options that can be selected and combined to meet each user's specific needs. Options are available for either a standard set of analyses or user-created analyses. Standard SALT performs over 50 analyses of language samples of any length or number, with flexible transcript coding and editing. Analyses include a variety of: total, complete, and incomplete utterances; total words, root words, TTR and Brown's stage and related normative data; pauses, transcript duration, morpheme analysis; utterance attempts/minute, words/minute; number of utterances by length; number of turns by utterance length; word frequencies for question words, negatives, conjunctions, auxiliary verbs, semi-auxiliary verbs, 8 types of pronouns, omitted word roots or bound morphemes, and user coded words. A second option for individually created coding uses SALT to sort and identify utterances coded for search by an individual scheme. SALT can be directed to find any symbols, words, or combinations of items, before, after, or with other items of interest. The Apple II version requires 128K memory; the IBM-PC/XT/AT version requires 256K memory.



**Product Name:** Sound Search II

**Vendor:** Harding & Harris, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$129.95 for set

Sound Search II contains a unique classification of the 1000 most frequently used words. Words are cross-referenced and classified according to the major linguistic features typically used in various professional settings such as speech therapy, teaching and research. The program can be used to provide assistance in planning and selecting words/phrases/sentences for treatment of voice disorders (contexts, emphasis on specific articulation features, etc.), hearing impairment (phoneme centered therapy, material for auditory discrimination training), articulation therapy (generate lists with specific sound contexts), aphasia-apraxia-dysarthria therapy, and English as a Second Language therapy.

The complete Sound Search II system contains seven disks (\$129.95). Each disk can also be purchased individually (\$29.95). Sounds are grouped in the following categories: r-l-s-z, p-b-t-d-k-g, m-n-ng-f-v-th, h-wh-w-y, ts-dz-sh-zh, vowels, and diphthongs. Contact the manufacturer for further information.

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**Product Name:** Stanford-Binet Computer Report (SB-CR)

**Vendor:** Southern Micro Systems

**Computer:** Apple II family, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$295.00

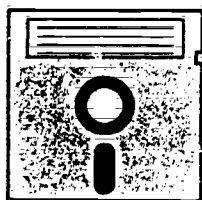
Stanford-Binet Computer Report (SB-CR) is a test analysis and reporting program that generates a psychological report based on performance on the Stanford-Binet Intelligence Scale. The results may be a component of a final report or used in writing one.

Program requires two disk drives for operation.



**Product Name:** UNISTAR Pre-IEP Report  
**Vendor:** UNITED Educational Services, Inc.  
**Computer:** Apple II family, IBM PC family  
**Manual Form:** Printed  
**Cost:** \$695.00

UNISTAR Pre-IEP Report is an expanded version of the UNISTAR I program, designed to assist with writing preparatory reports for IEPs for learning disabled, educable mentally handicapped, or high risk students at all grade levels. The program has been expanded to include a comprehensive set of goals and objectives for Life Skills abilities.



**Product Name:** VOC Matching and VOC Report  
**Vendor:** Conover Company, The  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$595.00 and \$110.00

VOC Matching is a management system which utilizes the results of other Conover programs: Career Planning System, Math on the Job, MECA Work Samples (see entry), Job Search and Local Job Bank (see entry). The program identifies vocational competencies and special services that are necessary in order to obtain employment within an interest area.

VOC Report is a "word Processing" type program which summarizes vocational, educational, and personal data on a person's background and assessment information. It is intended to standardize a reporting format which includes important aspects of a vocational report. VOC Report summarizes the information gained from the VOC Matching program listed above. Contact the manufacturer for further details.





**Product Name:** WAIS-Riter 'BASIC'

**Vendor:** Southern Micro Systems

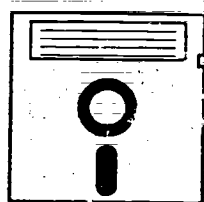
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$199.00

WAIS-Riter 'BASIC' is a test analysis and reporting program that provides complete calculations and comparisons of scaled scores in the WAIS-R (Wechsler Adult Intelligence Scale - Revised). The user enters the subtest scores, VIQ, PIQ, and FSIQ, and the program develops an individualized report or data. The scores from any achievement test can be entered. WAIS-Riter 'Basic' can be personalized using an editing feature.

The program is available for the IBM-PC family and the Apple IIe and IIc, but it will not run on the Apple II+.



**Product Name:** Wechsler Adult Intelligence Scale-Revised (WAIS-R)

**Vendor:** UNITED Educational Services, Inc.

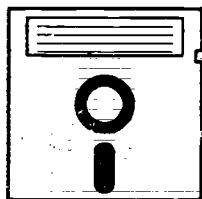
**Computer:** Apple II family, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$495.00

Wechsler Adult Intelligence Scale - Revised (WAIS-R) Computer Report is a computerized analysis program to facilitate interpretation of the WAIS-R. The program performs calculations and comparisons of the scaled scores.

Program includes manual and two disks (one is a back-up).



**Product Name:** WISC-R Compilation: What To Do Now.

**Vendor:** UNITED Educational Services, Inc.

**Computer:** Apple II family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$65.00

WISC-R Compilation: What to do now that you know the score (Computer Edition) is a computerized version of the WISC-R Compilation by Whitworth & Sutton. Program is designed to help identify practical and concrete objectives for remedial activities based on WISC-R subtest scores.

Program requires two disk drives, 48K of memory, and an 80 column printer.



**Product Name:** WISC-R Computer Report (WISC-RCR)

**Vendor:** UNITED Educational Services, Inc.

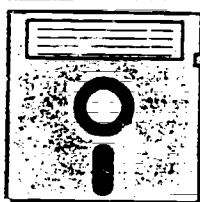
**Computer:** Apple II family, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$495.00

WISC-R Computer Report (WISC-RCR) is a test compilation and reporting program for the WISC-R. The program is designed to help prepare a comprehensive psychological report based on student performance on the test.

Program includes two disks (one is a back-up), manual, and teacher's guide.



**Product Name:** WISC-Riter 'BASIC'

**Vendor:** Southern Micro Systems

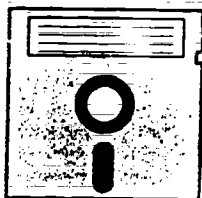
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$199.00

WISC-Riter 'BASIC' is a test analysis and reporting program that provides computer-assisted interpretation of the WISC-R. The user enters WISC-R subtest scores, VIQ, PIQ, and FISQ, to generate a 3-4 page report. The user has the option to include or bypass entering information from any achievement test. WISC-Riter 'BASIC' can be personalized using an editing feature.

Program includes two disks (one is a back-up), manual, and teacher's guide. The program is available for the IBM-PC family and the Apple IIe and IIc, but will not run on the Apple II+.



**Product Name:** WISC-Riter Complete

**Vendor:** Southern Micro Systems

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$495.00

WISC-Riter Computer Report (WISC-RCR) is a test compilation and reporting program for the WISC-R. The program is designed to help prepare a comprehensive psychological report based on student performance on the test. An editing feature allows the report to be personalized.

Program includes two disks (one is a back-up), manual, and teacher's guide. The program is available for the IBM-PC family and the Apple IIe and IIc, but will not run on the II+.



**Product Name:** Woodcock Reading Mastery Tests Error Analysis Report

**Vendor:** UNITED Educational Services, Inc.

**Computer:** Apple II family, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$295.00

Woodcock Reading Mastery Tests Error Analysis Report (WEAR) is a test analysis program designed to provide a comprehensive error analysis of results of the Woodcock Reading Mastery Tests. The error analysis can be used as diagnostic information for instructional planning for individual students.

WEAR includes two disks (one is a back-up), and a manual.



**Product Name:** Word Class Inventory for School Age Children

**Vendor:** College-Hill Press

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$65.00

This program provides a fast referential semantic analysis of any 50-utterance language sample. There is automatic coding of the part of speech for 60-80% of the words in most samples. The following information is analyzed: overall semantic diversity (number of different words compared to number of total words), across-category diversity (e.g., number of nouns compared to number of total words), within-category diversity (e.g., number of different nouns compared to total nouns), and frequency distribution for each word in a sample. Language samples and analysis can be printed out. Documentation provides tables of normative data (ages 2-15) for comparative purposes, with suggested interpretive guidelines.

# Chapter 10

## Assessment Software

*This chapter includes application programs whose primary function is an evaluative one. If the program's primary function is to provide therapy, but it involves data tracking or assessment components, it will be found in Chapter 11, Education/Training/Therapy and cross referenced in the index list for Assessment. If the program is primarily meant to assess or evaluate, it will be listed in this chapter and cross referenced in the index list for Education/Training/Therapy.*

*Related functions in the cross reference indexes include Analysis and Reporting (AR), Education/Training/Therapy (ET), Adaptive Daily Living (AD), Vocational (VO), etc.*

*Appendix A includes listings of Service Centers and Computer Assessment/Training Centers for Disabled Individuals.*

The following product entries appear in this chapter:

ACES 3-171  
Assessment of Intelligibility of Dysarthric Speech 3-171  
Audible Career Explorer 3-172  
ButtonCount Switch Assessment 3-172  
CARA 3-173  
Catch the Cow 3-173  
Comprehensive Phonemic Inventory for Children, 2.0 3-174  
Computer Managed Articulation Diagnosis 3-174  
Computer Managed Screening Test 3-175  
DPSBCP 3-175  
Evaluation System 3-176  
Functional Skills Screening Inventory 3-176  
Game Power for Phonics, Plus 3-177  
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JOBS System 3-178  
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The following products from other chapters can also be used for Assessment (Evaluation):

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Lighted Signalling Buzzer 2-79  
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Small Clock Communicator 1-26  
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Speller Teller 1-27  
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ToyPAC 1-33  
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Vibrating Sack 1-35  
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Word Recognition 3-294  
Zygo Model 16C 1-36  
Zygo Model 20 1-37  
Zygo Model 21S 1-37  
Zygo Model 4 2-85



**Product Name:** ACES

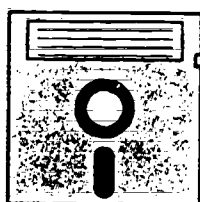
**Vendor:** Words+, Inc.

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$9995.00

ACES (Augmentative Communication Evaluation System) is a complete professional workstation for client evaluation. The system consists of a microcomputer with 640K of RAM and two disk drives, a hard disk (20MB), color and monochrome graphics cards and monitors, a letter-quality printer, a speech synthesizer, several switches and controls, and software including word processing, database, DOS, and utility programs, plus the special ACES software. ACES is designed to guide the user through the augmentative communication evaluation process, assisting by keeping track of client information and test results. Once testing is complete, ACES provides a generic device recommendation (type of device, not a specific manufacturer). The system includes the ability to test the client's potential to use a particular type of system by emulating its method of operation.



**Product Name:** Assessment of Intelligibility of Dysarthric Speech

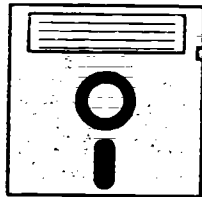
**Vendor:** C.C. Publications, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$130.00

This is a tool for quantifying single-word ... lligibility, sentence intelligibility, and speaking rate of adult and adolescent dysarthric speakers. The software automatically and randomly selects 50 words and 20 sentences from hundreds of stimuli contained in the program. All data is automatically stored and scored. The program includes a manual for administration and interpretation of results, as well as discussion of the theroetical and research bases for the test.



**Product Name:** Audible Career Explorer

**Vendor:** Laureate Learning Systems, Inc.

**Computer:** Apple IIe, IBM PC family

**Manual Form:** Electronic, Printed

**Cost:** \$900.00

ACE is designed for use by visually impaired persons, and by those with limited literacy skills. It helps students/clients explore career options. ACE has been designed for ease of use with special education students. Every question, instruction and answer are spoken by the Echo speech synthesizer. A software tutorial allows students to use ACE independently. The 10 number keys are used for input. Career related questions are asked about vocational interests, aptitudes and temperments, and about the physical demands and environmental conditions under which the user is willing and able to work. Answers are then compared with over 600 occupations. A list of suitable careers is generated along with a description of each one. Descriptions can be spoken or printed out for use by the vocational counselor. ACE cannot be used with the Apple IIc. An Apple IIe with a hard disk drive is required. An IBM version is available. Check with the manufacturer for further details.



**Product Name:** ButtonCount Switch Assessment

**Vendor:** ButtonCount Software Company

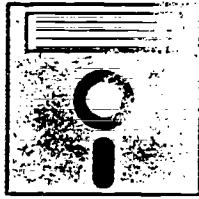
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$30.00

ButtonCount Switch Assessment is designed to help determine the most suitable switch for an individual and the optimal positioning of the switch. A variety of switches can be attached to the computer with an adapter (not included). The computer provides visual reinforcement as the user activates the switch. The program counts and analyzes the number of responses over time. Results can be compared across different switches for different body interface positions. Data can be printed out.





**Product Name:** CARA

**Vendor:** Southern Micro System

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$149.00

CARA is a tool for reading assessment. It is not a test, and is not tied to any specific test or set of tests. The teacher gathers information about the student, including any test results, samples of daily work, personal data, etc. The validity of the information used is assumed. No minimum amount of information is required. Drawing on the information provided, the program analyzes the data to provide defensible judgements and conclusions. CARA can be used with students grades one through twelve. The reading assessment results can be printed out.



**Product Name:** Catch the Cow

**Vendor:** Birch, Jana

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$10.00

Catch the Cow is a scanning training program for single or dual switch training. The program presents an array of boxes, one of which contains a graphic cow, and the user must press a switch when an arrow scans to the box with the cow. The program progresses to more difficult arrays if user successfully selects three displays. The arrays increase in difficulty by number of squares to scan, with four levels of 2, 4, 12 (4 x 3 matrix), and 36 (6 x 6 matrix). Users must press switch twice to select correct box in matrix arrays. Scan speed and type of scanning (automatic or manual) are user-adjustable.

Program requires an Apple II series computer and some type of adaptive switch control suitable for an Apple. The program can use single switch control, or manual dual switch, where one switch moves the pointer and one switch selects the item.



**Product Name:** Comprehensive Phonemic Inventory for Children, 2.0

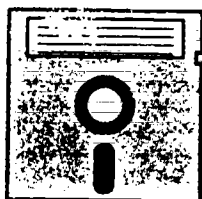
**Vendor:** College-Hill Press

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00

This data-based program provides assessment and analysis of children's articulation errors, and up to 13 pages of analytical and therapeutic information based on the child's age and performance scores. There are 89 picture plates (color or monochrome) that appear on the monitor. The clinician is able to code articulatory attempts for additional substitutions and modifications. Analyses identify defective sound systems and specific errors within each system; errors in manner and place of articulation and voicing. Consonants and vowels (pure, diphthongized and retroflexed) are analyzed. Normative data for ages four through eight is included. Physiological and accoustical goals for therapy are listed, and word pairs specifically targeted to remediate the defective sound systems are provided.



**Product Name:** Computer Managed Articulation Diagnosis

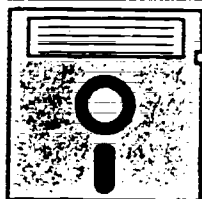
**Vendor:** Communication Skill Builders

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$59.95

Computer Managed Articulation Diagnosis is an articulation test given completely at the computer. Administration time is similar to that of conventional articulation tests. Readers can read the stimulus sentences on the screen. An elicited sentence format is used with nonreaders. Each sound is presented in pre- and post-vocalic positions and no consonants are abutting the consonants being tested. Single phonemes, blends or both can be tested. Stimulability can also be tested. After testing, the computer will generate a four-page analysis of error patterns by distinctive features and other categories. Individual student information can be stored on the data disk for immediate retrieval at any time. Test results for 100 students can be stored. Reports can be printed as needed.



**Product Name:** Computer Managed Screening Test

**Vendor:** Communication Skill Builders

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.95

The Computer Managed Screening Test presents 32 test items for evaluation in the areas of articulation, receptive language, expressive language, voice and fluency. Administration of the test takes approximately 2 1/2- 4 minutes. The clinician reads the instructions from the screen. When the student responds, the clinician keys in whether the response was correct or incorrect.

After testing, reports will be generated that list every response of every child, score each subtest, compute each child's chronological age, and break down the results of a class by six-month age groups.



**Product Name:** DPS:BCP

**Vendor:** VORT Corporation

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$390.00

DPS:BCP is a software database version of the BCP (Behavioral Characteristics Progression) system developed by the Santa Cruz County Office of Education. The routines in the BCP help with assessment, objective setting, and instruction. This computerized version contains the behaviors and methods from 55 BCP goal areas, and permits data entry and progress tracking.

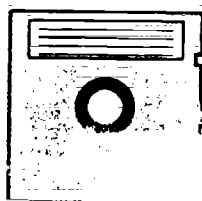
Contact the manufacturer for more information on the uses of the BCP system.



**Product Name:** Evaluation System  
**Vendor:** ComputAbility Corporation  
**Computer:** Apple II family  
**Manual Form:** Electronic, Printed  
**Cost:** \$385.00

The Evaluation System is a package of about 100 programs on six disks. The Evaluation System is designed to aid the rehabilitation specialist in assessing disabled individuals and determining the proper type of augmentative communication aid. The Evaluation System allows input by one to five switches, or a joystick.

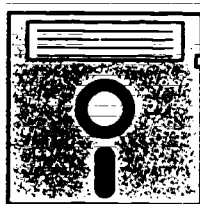
A switch interface is provided and switch and/or joystick input devices are required to operate the Evaluation System.



**Product Name:** Functional Skills Screening Inventory  
**Vendor:** Functional Resources Enterprises  
**Computer:** Apple IIe, IBM PC family  
**Manual Form:** Printed  
**Cost:** \$340.00 - \$380.00

The Functional Skills Screening Inventory (FSSI) is a criterion-based behavioral checklist to be used in natural settings to assess critical living and working skills of persons with moderate to severe handicapping conditions. It can be used to assess current functioning and identify placement needs and options. FSSI can also be used to identify and prioritize training needs and goals, document progress in training and facilitate transition to adult living. The checklist of 343 items represents samples of skills required for functioning at various levels of independence in society.

The program computes all scores, and records and prints out comments about the individual's performance on any item. System requires two disk drives and an 80 column card for operation. Two related programs are also available: Group Data Program to compile individual assessments into group profiles, and Training Edition for self evaluation program placement rating. FSSI is available for IBM computers and compatibles for \$380.00, and for Apple IIe computers for \$340.00. A demonstration disk is available for \$17.50.



**Product Name:** Game Power for Phonics, Plus

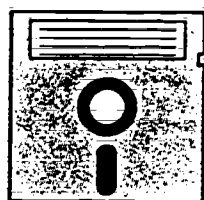
**Vendor:** Spin-A-Test Publishing Company

**Computer:** Apple II family, Commodore 64,  
IBM PC family, IBM PC Jr, TRS-80 Model III,  
TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$75.00

Game Power for Phonics, Plus is a computerized diagnosis and immediate reference to 241 structural and phonetic parts of words in the form of circular games. Reading instruction is individualized as much as possible. Any word part that is an obstacle to a student may be emphasized and reinforced in a challenging game format. Over 1,687 games are available on one side of the disk. The "Plus" in the program name refers to the integration of diagnoses and the game technique, the addition of comprehension games, the option for teachers to add words into a game, and the variety of language arts games in the index.



**Product Name:** Job Search and Local Job Bank

**Vendor:** Conover Company, The

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$295.00 and \$70.00

The Job Search program consists of 1,864 job titles and the following data for each: physical demands, working conditions, general educational development, specific vocational preparation, aptitudes, interests, and temperments. A job search is based on the participant's interest, ability and on the basis of current academic level of functioning. The vocational counselor can increase the GED level (General Educational Development) by one or more levels in order to complete a job search which is slightly above the client's current academic level of functioning.

The Local Job Bank is a data-based management program designed to store information on employers in a geographical area. The program ties into the Job Search program, providing a way of making the results of the Job Search useful. The user must enter data on local employers.



**Product Name:** JOBS System

**Vendor:** Control Data Corporation

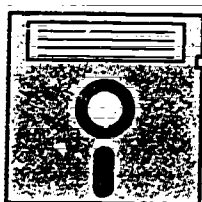
**Computer:** Apple II family, Control Data,  
IBM PC family, TRS-80 Model I

**Manual Form:** Printed

**Cost:** \$1500.00 - \$7500.00

JOBS (Job Opportunity Based Search) system offers assessment and helps identify appropriate jobs for disabled individuals. JOBS matches test results with job titles from the Department of Labor's listing of over 12,000 jobs. Descriptions of appropriate jobs are then printed out with a list of the industries where the jobs may be found.

A hard disk is required to operate the JOBS system. Price of the system depends on the type of databases used with the program; options include listings by types of industries, area of the country, or availability of training at job site. Some of these options require additional hardware. Contact manufacturer for details.



**Product Name:** MESA

**Vendor:** Valpar International

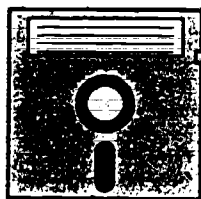
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$3975.00 - \$6750.00

MESA (Microcomputer Evaluation and Screening Assessment) is a program that provides baseline data for development of an individual education, training, and employment plan, or for more extensive vocational evaluation. Various exercises and screening procedures can be conducted. A skill profile of a specific job or training program can be created with the help of the MESA and the evaluatee's performance can be compared to this profile. MESA also helps the user generate a summary report.

MESA is available in 1 station (\$3975.00), 2 station (\$4975.00), or 4 station (\$6750.00) models.



**Product Name:** Micro-LADS

**Vendor:** Laureate Learning Systems, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00 - \$750.00

Micro-LADS (Microcomputer Language Assessment and Development System) is a series of seven diskettes, each of which is designed to teach a particular category of fundamental syntactic rules. The student is offered a phrase (spoken and written on the screen) and a choice of three graphics. The student is asked to choose which graphic corresponds to the phrase. Selections can be made with the space bar, a single switch (scanning mode), the arrow keys, a game controller (extra), or a touch sensitive screen (extra).

An Echo II or Cricket speech synthesizer is required to use Micro-LADS (extra). The disks are available individually or in partial or complete sets.



**Product Name:** Microcomputer Evaluation of Career Areas (MECA)

**Vendor:** Conover Company, The

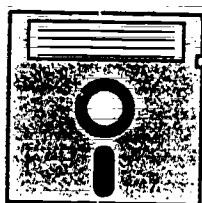
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** See below

MECA is a series of vocational assessment packages with "hands-on" simulation of tasks within a trade area. Each package contains three Work Samples, a Learning Activity Packet (LAP), and one Math on the Job program. The Work Samples break down job-related tasks into steps, which are presented with graphics and written instructions at the bottom of the computer screen. The LAP presents basic academic skills activities relevant to the career area covered, and Math on the Job applies different math skills in selected occupational tasks.

Software and training manuals are sold separately for all MECA kits for \$250.00 per kit. MECA kits are also sold with necessary hardware and supplies to complete tasks in training packages. These range from \$350.00 - \$725.00 including: automotive, building maintenance, graphic design, cosmetology, custodial housekeeping, electronics, small engines, food service, business & office, health care, manufacturing, construction, distribution, horticulture, and computers. System can be used with optional color monitor, or cassette player and cassette control device (CCD) for audio screen information for low or non readers.



**Product Name:** Picture Scanner - Software for Assessment

**Vendor:** R.J. Cooper & Associates

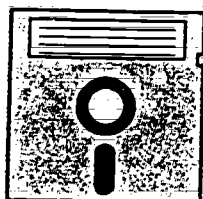
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** See below

Picture Scanner is a program which requires the user to activate a single switch. One picture at a time appears on the computer screen, and a speech synthesizer speaks the appropriate word for each picture. The instructor prompts the student verbally to select the picture. The student does so by pressing a single switch.

An Echo speech synthesizer and a single-switch adapter for the computer's game port are required to use Picture Scanner. The graphics can be created by various means, and the program is adaptable. The source code (a printed copy of the program) and the program on disk are available as public domain material and may be copied. Cost is \$10.00 to cover shipping, handling, and disk.



**Product Name:** Process Analysis Version 2.0

**Vendor:** Parrot Software

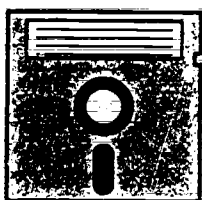
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.50

This program is designed to analyze phonetic responses to 59 stimuli, 14 of which contain initial clusters. After phonetic responses to the 59 stimuli are entered, the program does four different analyses. These are: initial position processes, final position processes, initial position phonetic inventory, and final position phonetic inventory. The keyboard has been modified by the software to show phonetic characters on the screen for data entry. Up to 12 speech samples may be stored on the disk and analyzed at any time. Results may be displayed on the screen or printed.





**Product Name:** SAGE System

**Vendor:** Control Data Corporation

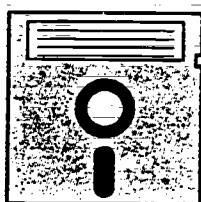
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$6,995.00

The SAGE system provides vocational aptitude testing in order to describe vocational skills and recommend appropriate training and jobs for an individual with disabilities. The system consists of a test protocol and a series of isolated units designed to test specific skills. SAGE's five units present 152 real work activities covering all occupational areas, designed to do the following: measure general development in reasoning, math, and language; assess verbal, numerical, spatial, form, clerical, motor, finger, manual, and eye-hand-foot aptitudes; describe work attitudes, interpersonal relationships, and worker temperament traits.

The SAGE system test results can be automatically scored when using a reading device for the separate units in conjunction with an IBM-PC.



**Product Name:** Single Switch Assessment Program

**Vendor:** Rushakoff, G.E.

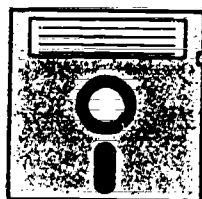
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Single Switch Assessment Program is designed to provide the clinician with data on what sort of single switch should be implemented for a particular individual, and where the switch should be placed. Single Switch Assessment Program is not a speed test, but a tool for finding the mean "normal response" time of an individual using various switches and switch placements. All data may be stored on disk and/or printed out for comparison and assessment.

A single switch (plugged into the game port) is required. Single Switch Assessment Program may be returned to the manufacturer for a refund within four weeks of purchase if buyer is not satisfied. Contact the vendor for details.



**Product Name:** Single-Input Assessment Software

**Vendor:** Developmental Equipment

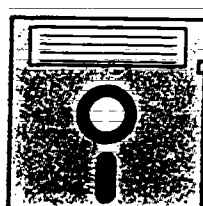
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$67.50

Single-Input Assessment Software is a program designed to evaluate an individual to determine the correct single switch for that individual. Single-Input Control Assessment collects information on movement, site, interface, and position. All performance and assessment data may be stored on disk.

A switch interface and several single switches are required for Single-Input Control Assessment.



**Product Name:** Software Simulations of Communication Prostheses

**Vendor:** Communication Habilitation Service

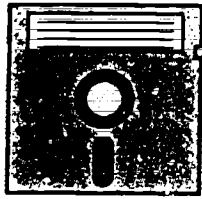
**Computer:** Commodore 64

**Manual Form:** Printed

**Cost:** Contact developer

This set of five software simulations was developed in order to provide skill assessment and training to help match a candidate for a voice output communication prosthesis with the appropriate technical aid. The series consists of five programs. Keyspeak 1 uses direct selection with the keyboard. Words or phrases are spoken by the speech synthesizer or printed on the screen. Each key may be programmed with eight different words. Lexicon is user programmable. Keyspeak 2 uses direct selection of a three digit code on the keyboard. One thousand words/phrases can be programmed by the user. Comspeak uses direct keyboard selection with one to three character codes personally chosen to reflect letter abbreviations or semantic compaction. Comscan assesses scanning skills through presentation of a variety of grids (2, 6, 12, or 30 cells) on the monitor. Manual scan, automatic, or row-column scan techniques may be selected. Compad uses direct selection on the Power Pad. Lexicon and symbol type are user specifiable.

The developer may be contacted by mail for information on price and availability.



**Product Name:** Touch Com

**Vendor:** Developmental Equipment

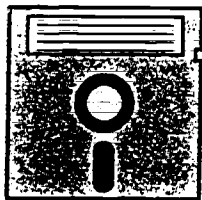
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$128.00

Touch Com is a program designed to assess and train an individual who will be using an electronic communication device with voice output. Touch Com uses the PowerPad (see separate entry in this book) as a selection panel. The symbols placed on the PowerPad are user definable, as are the corresponding phrases spoken. Spoken phrases and their corresponding locations on the PowerPad may be stored on disk. Multiple overlays and phrases may be constructed.

A PowerPad and an Echo II voice synthesizer are required to operate Touch Com.



**Product Name:** Visagraph Eye-Movement  
Recording System

**Vendor:** Instructional/Communications  
Technology, Inc.

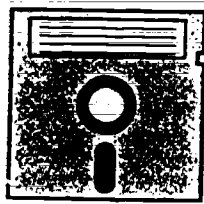
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$990.00

The Visagraph Eye-Movement Recording System records eye movements during reading and provides analysis of reading performance via a viewer which interfaces with the Apple II+ and Apple IIe computers. Student's eye movements are sampled 50 times per second. Results are then presented in graph form as calculations of reading performance efficiency (number of fixations and regressions, average span of recognition, average duration of fixation, reading rate with comprehension, etc.). The graph can be displayed on the monitor or printed out. A simulation of the reader's visual performance can also be displayed on the monitor.

Cost of \$990.00 includes both software and interface board for the Apple II series.



**Product Name:** Visual/Perceptual Diagnostic Testing & Training Progs.

**Vendor:** Educational Electronic Techniques, LTD

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$650.00 for set

This is an 8 program, 14 disk integrated software package designed to aid in the diagnosis and treatment of visual/perceptual dysfunction. Responses are made either directly on the screen using the Gibson Light Pen or by using a single switch. When switch input is selected, the programs utilize simple scanning routines with switch or space bar. All 8 programs are on one disk accessed through menus; other disks include backup disks, screen disks, and a template disk. Programs include: Visual Field, Figure Ground, Visual Discrimination, Dot Patterns, Maze Test, Visual Memory, Visual Scanning 1, and Visual Scanning 2. Using the Template disk and the software sold with the Gibson Light Pen (extra), a teacher or therapist can create graphics to run with the programs. In addition to on-screen results, all of the programs have the option of printing out the statistical summaries generated. If printing is desired, the Grappler+ interface card is required for graphics capabilities. System requirements are a color monitor, a Gibson Light Pen, and 48-64K of memory, depending on computer used Videotape demonstrations are available on loan at no cost.

# Chapter 11

## Education, Training, and Therapy Software

*This chapter includes application software and software/hardware packages whose primary function is to educate, train, or facilitate therapy. A large percentage of the entries in this chapter could be cross listed with Assessment (AS) or Analysis/Reporting (AR) functions because of built-in data tracking components. If there is a testing component in an Education/Training/Therapy program, it will be cross referenced with Assessment. However, even those programs in this section that do not have an evaluative component can often be used creatively for assessment purposes.*

*Many related functions appear in the indexes. Some of these are Early Skills (prereading, ES), Later Skills (involve some reading, LS), Math and Calculation (CN), Keyboarding Training (KB), Language Therapy and Development (LT), Speech Therapy (ST), Sign Language/Fingerspelling (SI) and Cognitive Retraining (CR).*

*Appendix A includes an information summary on other Software Resources, both printed guides and resource centers.*

The following product entries appear in this chapter:

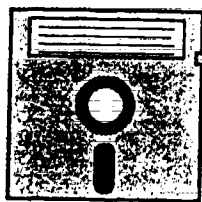
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 Touch Com 3-183  
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**Product Name:** Academics with Scanning:  
Language Arts

**Vendor:** Washington Research Foundation

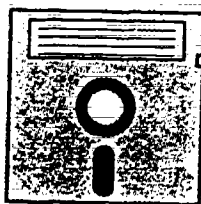
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Academics with Scanning: Language Arts is a writing aid program designed to help the disabled student do schoolwork. Programs include "Word Attack," "Crossword," and "Phonics Machine." A teacher must type in word lists, crossword shapes, or phonics worksheets from the student's own materials. The student then uses one switch ("Word Attack") or two switches ("Crossword," "Phonics Machine") to complete work on the screen or to produce printed output. Sample word lists are included.

Two switches must be substituted for or wired in parallel with the Apple game buttons through the game I/O port. A printer is recommended but not required.



**Product Name:** Academics with Scanning: Math

**Vendor:** Washington Research Foundation

**Computer:** Apple II family

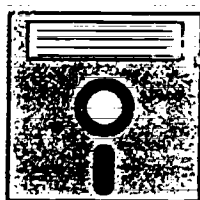
**Manual Form:** Printed

**Cost:** \$25.00

Academics with Scanning: Math is an electronic math worksheet program for the physically disabled student. Problem sets or worksheets are typed in by a teacher, and the student uses one or two switches to solve problems and produce output to the screen or printer. Programs include "Addition with Carrying," "Subtraction with Borrowing," "Multiple Digit Multiplication," "Long Division," "Constructive Geometry," "Fractions," and "Story Problems." Academics with Scanning: Math is suitable for grades 3 through 7.

One or two microswitches must be substituted for or wired in parallel with the Apple game buttons through the game I/O port. A printer is not required, but is recommended.





**Product Name:** Alphabet with Tom and Andy

**Vendor:** Dunamis, Inc.

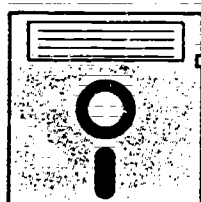
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

Alphabet with Tom and Andy is an alphabet training program which familiarizes children with the alphabet and teaches the position of those letters on the keyboard. Program includes three activities: Press and See, A Letter Makes a Word, and Matching Program. The program provides record-keeping for data evaluation and progress evaluation.

Use of PowerPad for input is optional (see entry); program will run with the keyboard.



**Product Name:** Anatomy and Physiology of the Speech and Hearing Mech.

**Vendor:** College-Hill Press

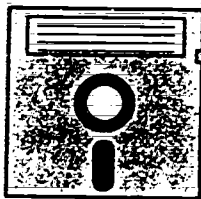
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$350.00

This is an independent study supplement designed to complement introductory course outlines in the anatomy and physiology of speech and hearing. A question-answer format is used and explanations of incorrect answers clarify the subject matter.

A demonstration disk is available for \$10.00.



**Product Name:** Aphasia Series: I through VIII

**Vendor:** Parrot Software

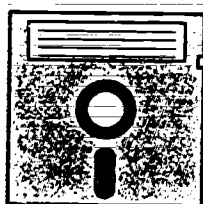
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$59.50 each

These programs are designed for aphasics and others with reading and comprehension problems, and operate with a single switch or space bar. In Aphasia I (Noun Association) and Aphasia II (Opposites-Similarities) the client must match a word to an appropriate one from 10 words on the screen. Aphasia III (Categories) operates in the same way, except that the clinician can control the time necessary for a response (from 3 to 30 seconds). Aphasia IV (Reading Comprehension) contains 10 stories with adult themes, with literal and inferential levels. A reading cursor can highlight one line of the story at a time to help people with visual problems. Aphasia V (Sentence Completion) presents choices of words to fill in a sentence blank, from choices that are semantically or visually similar, or not similar. Aphasia VI (Definitions) is identical except that three definitions are presented as options for a word; foreign language or user-defined definitions are possible. Aphasia VII (Picture Identification) flashes pictures and asks user to spell the name of the object, highlighting incorrect letters. Aphasia VIII (Picture Naming) displays a picture and user chooses correct name from three options.

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**Product Name:** Apple Demo Disk

**Vendor:** Zygo Industries, Inc.

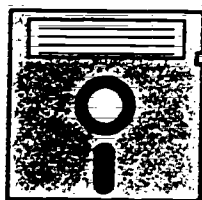
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$75.00

Apple Demo Disk is a program that demonstrates the operation of various alternate modes of computer operation used by disabled people. Input methods demonstrated include direct selection using the keyboard, and scanning using one switch, two switches, and the keyboard. Output modes demonstrated include printed text, synthesized speech, sound, and graphics (large print, Bliss symbols, etc.). The same programs designed for demonstrating the use of these systems to non-users may also be used to assess which methods work best for a client.

Various peripheral devices (switches, speech synthesizer, etc.) are required to run this demonstration program (extra).



**Product Name:** Arithmetic 1, 2, and 3 with Speech

**Vendor:** Life Science Associates

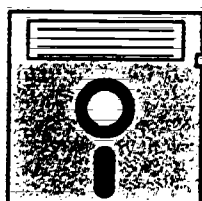
**Computer:** Apple II+, Apple IIe

**Manual Form:** Printed

**Cost:** \$105.00 (or see text)

These programs provide drill and practice on the four arithmetic operations and practice in solving simple word problems. Because they were written specifically for use with the ECHO II, there is correct pronunciation of mathematical symbols and two digit numbers. The teacher or student can set the level of difficulty of the problems, the score is given at the end of each program, and automatic record-keeping capabilities are included. All three programs include an introduction to the keyboard. Arithmetic 1 covers addition, subtraction, multiplication and division of whole numbers and word problems (\$75.00). Arithmetic 2 covers mixed operations, two-step problems, and problems with missing elements (\$75.00). Arithmetic 3 contains timed drills on addition, subtraction, multiplication, division and mixed operations using whole numbers. A timed game for two players is included (\$60.00).

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**Product Name:** Audio Braille Game Tutorial

**Vendor:** Speech Enterprises

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$30.00

Audio Braille Game Tutorial is a braille training program to help teach braille contractions. The program includes seven games to practice the following contractions: short form words, one cell upper signs, lower whole word signs, two cell initial letter signs, upper whole word signs, and one cell lower signs. Stimuli can be presented either alphabetically or in random order.

System requires an Echo + or Echo II speech synthesizer for voice output capabilities.



**Product Name:** Basic Language Series-Spatial Concepts

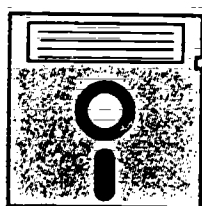
**Vendor:** C.C. Publications, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$249.95

Twenty four basic spatial concepts are presented with more than 100 graphic illustrations and speech instructions. Teachers can adjust response time to meet individual student's needs. Immediate feedback for each task is given. Reproducible worksheets are included with the software. An Echo + or Cricket speech synthesizer is required for the programs to operate properly.



**Product Name:** Basic Vocabulary Builder on Computer

**Vendor:** Ballard & Tighe, Inc.

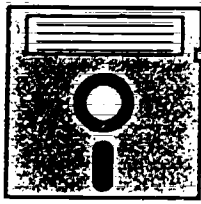
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95

Basic Vocabulary Builder on Computer consists of twenty-four lessons that reinforce 272 common nouns, adjectives and verbs. It is a menu-driven program which allows the user to choose from any of the twenty-three lessons at any of three levels of difficulty offered by the program. Each lesson includes nouns, adjectives, and verbs, and covers one facet of everyday life. Most lessons reinforce twelve words. Each word appears on all three levels, with a different activity on each level. In lessons 1 - 18, level A is noun identification, level B is pluralization of noun, and level C is agreement of noun with demonstrative adjectives. In lessons 19 - 20, level A deals with identification of verb, level B with agreement of verb with personal pronouns, and level C with identification of verb.

The program utilizes color graphics, random presentation, and time and point accumulation in each lesson. It is available for the Apple II + and Apple IIe. It is also available in Spanish, French, German and Italian. An Echo + speech synthesizer is required for voice output.



**Product Name:** Bear Jam

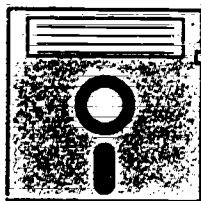
**Vendor:** Dunamis, Inc.

**Computer:** Apple IIe, Atari 400, Atari 800,  
Commodore 128, Commodore 64

**Manual Form:** Printed

**Cost:** \$39.95

Bear Jam is an educational pre-reading program which provides practice in basic visual skills involved in later learning, including observing similarities, recognizing differences, and distinguishing patterns. The program includes 6 games with different user specifiable levels of difficulty, to train familiarity with shapes and colors. The program requires a PowerPad (see entry) and has animation, music, and color reinforcement for correct answers.



**Product Name:** Blisspen

**Vendor:** Developmental Equipment

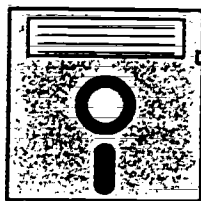
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$47.50

Blisspen is a program that allows the user to write and edit stories using Blissymbols. Over 200 vocabulary words have been included corresponding to the theme "going on a trip." The topic available is open ended, and should allow for several different stories to be written by each user.

A switch interface and single switch or the keyboard may be used to operate Blisspen. A printer is recommended for output.



**Product Name:** Blissymbolics: Bliss Drills

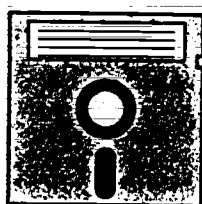
**Vendor:** MECC (Minnesota Educational Computing Consortium)

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$43.00

Bliss Drills is a series of drills used to teach Blissymbols. Using a switching device, game paddle, or simple keyboard contact, the student tries to match two identical symbols, or to match words with their corresponding symbols. The teacher can use the Blissymbolics Blissboard or the Blissymbolics Bliss Library to create and store additional sets of symbols for use in drills. For ages Preschool - Adult.



**Product Name:** Blissymbolics: Blissymbol Concepts

**Vendor:** MECC (Minnesota Educational Computing Consortium)

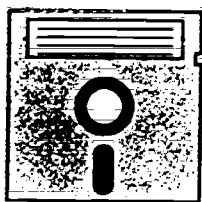
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$44.00

Blissymbol Concepts is a program that uses Blissymbols to teach the recognition and application of several basic concepts. Concepts taught include distinguishing left from right, determining the spacial location of objects, and describing the size and quantity of objects. For ages Preschool - Adult.

Keyboard or a single switch may be used for input; the single switch is extra, and will require some type of single switch interface.



**Product Name:** Bobcat

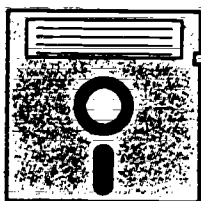
**Vendor:** Hoefer, J.J.

**Computer:** Commodore 64

**Manual Form:** Printed

**Cost:** \$15.00

Bobcat is a tutorial program for sighted Braille transcribers. Bobcat covers the first ten lessons of the official Braille Training Manual. The program randomly selects examples, offers a prompting option, and carries a second-try feature. Bobcat uses the keys "x, c, z, j, k, and l" on the standard keyboard to correspond to the six cells of Braille.



**Product Name:** Braille Trainer

**Vendor:** Raised Dot Computing

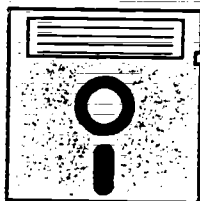
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$100.00-\$300.00

The Braille Trainer offers transcribers-in-training programmed instruction, drills and feedback. Using the Apple keyboard in Braille mode, students can check their accuracy through back translation. The voice output version sharpens the braille skills of blind persons.

Braille Trainer is available in three forms. BTP with screen output only is \$100.00. BTP with Echo/Cricket output is also \$100.00. A BTP School Pack, consisting of 5 copies of the program, is available for \$300.00. Contact the manufacturer for details.



**Product Name:** Brainz

**Vendor:** Bainum Dunbar, Inc.

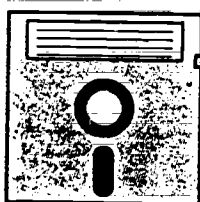
**Computer:** Apple IIc, Apple IIe

**Manual Form:** Printed

**Cost:** \$230.00

Brainz is an authoring program that allows an instructor to create lessons for students. The program uses menus to offer the instructor options in constructing the lessons. Graphics, text, and questions (multiple choice, fill in the blank, word matching, and direct questions) may be used. A special format called Word Flashing (the student matches a word with its category) is also provided. No programming knowledge is required to set up lessons with Brainz. Brainz flashes a message for wrong answers, and keeps the student's score. Characters are available for questions in English, Spanish, German, and French.

A large type version with English characters is now available.



**Product Name:** CAPTAIN: Cognitive Training Series

**Vendor:** Network Services

**Computer:** Apple II family, IBM PC family

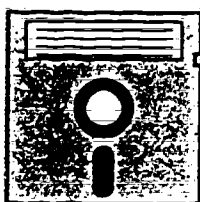
**Manual Form:** Printed

**Cost:** See below

CAPTAIN was designed to train basic cognitive memory, visual/motor, and reasoning skills. The CAPTAIN System consists of 21 programs in three modules: attention skills, visual/motor skills, and conceptual skills. It utilizes the Apple Mouse, a Trackball, a special joystick system, or a S-Puff Visual Control System to control the system. The VCS option enables CAPTAIN to be controlled with head movement and breathing actions. The mouse or trackball input requires only one hand. Program options include three levels of difficulty in the game-like skill training, assessment mode or training mode, time of the trial, and presence or absence of visual cues or prompts.

The complete CAPTAIN system includes five disks. Each of the three modules is on a disk, the System Master is for record management and back-up, and a data disk is included. Individual modules for the Apple are \$325.00 and \$795.00 for a complete set and a complete set for the IBM is \$895.00.





**Product Name:** CASPT

**Vendor:** R.J. Cooper & Associates

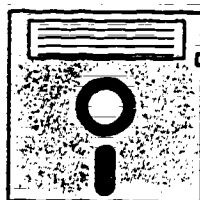
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$99.95

CASPT is a program that uses voice input to provide speech impaired individuals with a means of improving pronunciation of targets. CASPT analyzes targets spoken by the user, and matches them with pre-programmed target phonemes. The program takes the form of a video game(s); the user moves through the game based on the quality of responses. If the phoneme given by the user does not adequately match the target, the program does not respond. A target can be a phoneme, word, or short phrase.

CASPT requires some hardware in addition to the software. Contact the manufacturer for details.



**Product Name:** Catagorical Reasoning I and II

**Vendor:** Parrot Software

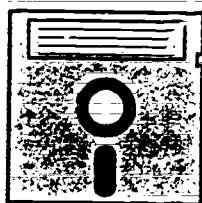
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$69.50 each

Catagorical Reasoning I and II are programs which train skills in determination of categories of various nouns. Catagorical Reasoning I presents a short list of words and asks the user to choose which of three categories apply to that list. The program then displays the category name over the target list and asks which of a second list of three words should also be included in the same category. Catagorical Reasoning II lists five words and asks which does not belong, followed by presentation of a choice of three reasons why that word is different. Last, the program presents a choice of five words, to select a word to replace the word that didn't fit in the category.

Both programs use large characters, include authoring systems, and can be operated with the space bar or a single switch with the proper interface. The total number of problems is 200, and users can make additional items themselves.



**Product Name:** Chatterbox Dictionary

**Vendor:** Chatterbox Voice Learning Systems

**Computer:** Apple IIe

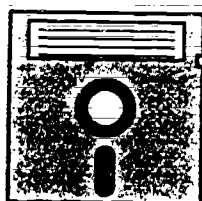
**Manual Form:** Printed

**Cost:** \$295.00

The Chatterbox Dictionary uses voice input and voice output to develop vocabulary skills. Vocabulary categories include: community signs, body parts, food, clothing, etc. During training, each word is presented as an illustration, in printed form and is spoken by the speech synthesizer. The student repeats the word to train the voice recognition component in the way that the student says it. After training, each vocabulary item is displayed again. If the student does not identify it correctly, the correct name is spoken by the speech synthesizer. The student gets two more opportunities to identify the vocabulary item.

Chatterbox Dictionary requires an Apple IIe, and will not work with an Apple IIc. The program comes with the software and a Sony headset/microphone. The Echo (II or +) speech synthesizer and Introvoice input module are not included.

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**Product Name:** Choice Maker I

**Vendor:** Microcomputer Systems for the Handicapped

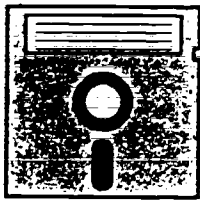
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$75.00

Choice Maker I is an early childhood training program designed to teach children to make choices about which objects in the environment they wish to control. The program teaches cause/effect relationships, picture/object correlations, switch/picture/object correlations, picture discrimination, and scanning. The program also collects and analyzes performance data.

A variety of peripherals can be used with the system, including speech synthesizers, keyboard modifications, or switches. Contact manufacturer for details.



**Product Name:** Cloze-Plus Program

**Vendor:** Instructional/Communications  
Technology, Inc.

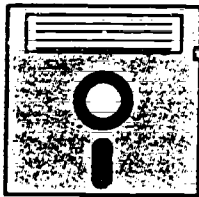
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00 each

Cloze-Plus Program is a vocabulary and comprehension skills training program which uses structured cloze sentences (context sentences with one key word missing). Three types of tasks for comprehension and vocabulary input are included. Meaning Completion Cloze presents a paragraph with a missing word and asks users to select the correct choice from foils. Vocabulary in Context asks a content question based on a paragraph in which the target word meaning can be inferred from context. Syntax Completion Cloze presents a sentence with a missing word and asks user to type in the correct word. User can request clues on any of the tasks by pressing space bar.

Cloze-Plus program is available for six reading levels with 20 lessons each for grade 3 to 8.



**Product Name:** Cognitive Rehabilitation Series

**Vendor:** Hartley Courseware, Inc.

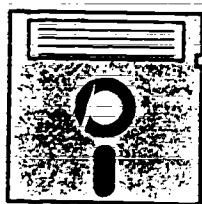
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$195.00-\$595.00

This series was developed to address a variety of organizational deficits which often result from traumatic brain injury and other neurologic impairments. The series consists of five separate program disks. The first four disks deal with the target concepts of Categorization (fits and misfits), Sequencing, Association, and Memory. The fifth disk is an authoring program that allows a clinician to expand or individualize activities from the four content disks.

All lessons are presented in a large easy-to-read upper/lower case letterset. Visual distractions are avoided unless they are part of the therapy. Instructional design options allow the clinician to control the number of presentations, the number of tries before answers are given, the parameters on which a lesson terminates, and other factors which may be required to meet individual patient needs. The non-licensed version of the series consists of the four content disks for \$195.00. The licensed version includes all 5 programs and permission to make multiple copies for \$595.00.



**Product Name:** Cogrehab Vol. 1

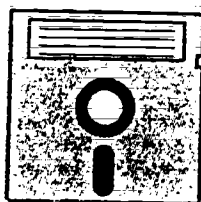
**Vendor:** Life Science Associates

**Computer:** Apple II family, IBM PC family,  
TRS-80 Model I, TRS-80 Model III,  
TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$250.00

Cogrehab Vol.1 is a memory and perceptual practice program with eight tasks addressing different skills in these areas. The tasks in Vol. 1 address: speed reading of word lists, reaction time to visual stimuli, speed of shape-matching, free memory recall, memory span capacity, mnemonic memory for word series, nonverbal sequence memory, and two administrative functions for keeping records and computing visual field information. Input is made via the keyboard.



**Product Name:** Cogrehab Vol. 2

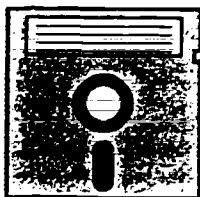
**Vendor:** Life Science Associates

**Computer:** Apple II family, TRS-80 Model I,  
TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$150.00

Cogrehab Vol. 2 is a perceptual assessment and training program for visual perception and memory. The program consists of six tasks addressing skills in these areas, including: line bisection of horizontal and vertical lines, eye movement exercises with horizontal scanning, nonverbal shape matching, visual search for unusual shapes, and Single and Double Simultaneous Stimulation (SDSST). Input is made via the computer keyboard.



**Product Name:** Cogrehab Vol. 3

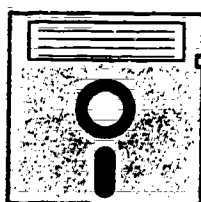
**Vendor:** Life Science Associates

**Computer:** Apple II family, TRS-80 Model I,  
TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$95.00

Cogrehab Vol. 3 is a memory training program designed particularly to supplement other therapy activities as homework. The program consists of five tasks, each addressing a different skill area, including: immediate memory recall, associative memory recall, recall of block patterns, advanced verbal memory exercise, and reading memory exercises.



**Product Name:** Cogrehab Vol. 4

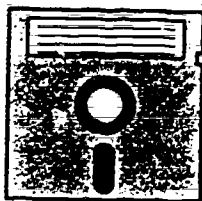
**Vendor:** Life Science Associates

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$95.00

Cogrehab Vol. 4 is a cognitive rehabilitation program which concentrates on three broad behavioral levels: attention, scanning, and problem solving. The program consists of three tasks, each of which addresses one of the areas of concentration, including: visual attention and vigilance, L/R and R/L scanning practice, and problem solving about logical sequences in number series. Input is made via the computer keyboard.



**Product Name:** Coinsnkeys

**Vendor:** Castle Special Computer Services, Inc.

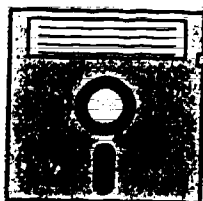
**Computer:** Apple II family, Commodore 64,  
IBM PC family, IBM PC jr

**Manual Form:** Printed

**Cost:** \$45.00

Coinsnkeys is a coin recognition and counting practice program with voice output options. Tasks in program include identifying coins by spoken name, identifying coins by spoken value, identifying the computer keys by name, practice counting one-to-one, and practice counting simulated coins, bills.

A speech synthesizer is required for voice output (not included with program). Program also includes instructions so that coins can be mounted on the keyboard; contact manufacturer for details.



**Product Name:** Color Find

**Vendor:** Handicapped Children's Computer  
Cooperative Project

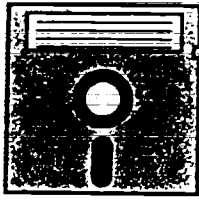
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$14.95

Color Find is a color recognition and matching program for preschool children. The program presents large blocks of one of nine colors on the computer screen, and vocalizes instructions such as "press red". Color stickers corresponding to these colors are placed on the keyboard. The child is required to press the color key corresponding to the screen prompt color to be matched.

An Echo II Speech Synthesizer and color monitor for the Apple II are required for operation.



**Product Name:** Complete Spelling Program

**Vendor:** Special Learning Ed Software (SLED)

**Computer:** Apple II family, Commodore 64

**Manual Form:** Printed

**Cost:** \$199.00 - \$230.00

Complete Spelling Program consists of instructional activities in spelling designed for students with spelling deficits or specific learning disabilities, from fourth grade to adult. The comprehensive, self-contained program includes five basic spelling rules, exceptions and generalizations, and provides repetitive exercises and reinforcement. The program features: tutorials for each rule, drill and practice, graphics, student pacing, correct answers and summary performance with the option to proceed available on request.



**Product Name:** Comprehension Power Program

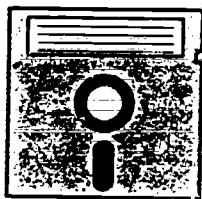
**Vendor:** Instructional/Communications  
Technology, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00

Comprehension Power Program is a reading improvement program designed to improve comprehension and study skills strategies through reading practice. The program series consists of 12 four disk sets spanning reading levels 1-12. Reading practice is conducted in three steps: vocabulary introduction of key words, optional untimed preview of portions of reading selections, and comprehensive reading presentation of text line by line in short segments. Each segment is followed by comprehension questions, and text presentation can vary from 30-650 words per minute. Other analysis functions and summary data are available in program.



**Product Name:** Computer Assisted Instruction in Phonological Process

**Vendor:** College-Hill Press

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$65.00

This program is designed as an introduction to phonological analysis for clinicians and university students. It teaches the fifteen most commonly occurring processes and applies the concepts to the analysis of disordered speech. Program features include an interactive question-answer format, reinforcement of correct responses, and clarification of incorrect responses. Numerous help screens are provided to assist the user in remembering and learning process abbreviations and coding. The user controls pace of progress and can go back to review material which has been covered before proceeding.



**Product Name:** Computer Courseware for the Exceptional Student

**Vendor:** Communication Skill Builders

**Computer:** Apple II family

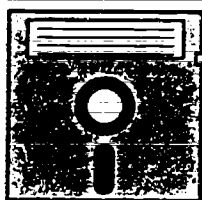
**Manual Form:** Printed

**Cost:** \$99.95(set), \$39.95each

This is a set of three programs that provide drill and practice in the skill areas of keyboarding, spelling, and arithmetic. **KEYBOARD** teaches a student how to use the computer keyboard. One group of letters or numbers is presented in each lesson. **SPELLING** provides drill and practice of 280 words identified by grade level. **ARITHMETIC** offers drill and practice in addition, subtraction, multiplication, and division for whole numbers 0-99.

All three programs offer immediate feedback, a screen display with minimal distractions, ability to change or correct responses, and unlimited opportunities to respond.





**Product Name:** Computer CUP

**Vendor:** Amidon Publications

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$39.95/set; see text

Computer CUP (Concept Understanding Program) consists of six sets on nine disks designed to teach basic concepts. Each set presents different concepts. Set 1 teaches top, through, away from, next to, inside, middle, farthest; set 2- around, over, between, nearest, corner, behind, row; set 3-center, side, below, right-left, forward, above, separated, in order; set 4-some/not many, few, widest, most, whole, second/third, several, almost; set 5- half, as many, not first or last, medium-sized, zero, every, pair, equal, least; set 6- different, after, beginning, other, alike, matches, always/never, skip. Presentations remain on the screen until a response is made. The keyboard is used as input. Each set is \$39.95, or the complete series is \$229.50. Student performance sheets and a class record sheet are included.



**Product Name:** Computer Managed Articulation Treatment

**Vendor:** Communication Skill Builders

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$59.95

This set of drill and practice exercises focuses on 10 sounds- S,L,R,P,T,CH,SH,F,K, and TH (unvoiced). The program progresses through 12 treatment levels, from the sound in isolation, through elicited sentences, to spontaneous speech.

Students read and repeat the stimulus presented on the screen. An elicited sentence format can be used with nonreaders. The clinician keys in the correctness of the response. The computer reinforces correct responses and determines when to print out progress reports for each student whenever needed. The computer-generated report shows the date of each session, total number of responses, number of correct responses, and the highest level of achievement.



**Product Name:** Computer Managed Language Treatment

**Vendor:** Communication Skill Builders

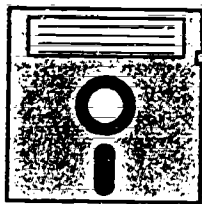
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.95

This program contains lessons in four language skill areas (colors, numbers, prepositions, utterance length). In each lesson the computer presents stimulus sentences on the screen and the student is to follow the directions (e.g., tells the student where to place a block in the preposition lesson). In the Mean Length of Utterance lesson the student repeats sentences shown on the screen.

A graph of student progress appears on the screen with every lesson. The printed report gives the date, total number of responses, number of correct responses, percentage correct and the highest step achieved for that session.



**Product Name:** Computer Progs. for Neuropsychological Testing & Rehab.

**Vendor:** Sbordone, Robert, PhD

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$195.00 each

The Sbordone-Hall Memory Battery (only program available for IBM) provides the automatic assessment of 18 memory functions, and statistical analysis of the results. The Digit-Digit II test trains visual perceptual and motor skills, and speed of cognitive processing. User must locate a displayed number from 1-9 on a horizontal array, and then locate another number located directly below and enter that on a keyboard. Three additional programs are designed to operate as a sequence, requiring increasing levels of attention and memory. The Complex-Attention Rehabilitation Program presents the user with a visual tracking task of increasing difficulty using a joystick. Problem Solving I teaches the user to tolerate increasing levels of frustration to complete a problem solving task. Problem Solving II presents a series of increasingly complex problem solving tasks, each of which adjust in level of difficulty to the patient's performance and provides immediate feedback to the patient. All programs provide performance data and analysis and comparison of patient scores. Each program can operate with an Echo II speech synthesizer for auditory feedback (optional).



**Product Name:** Computerized Reading for Aphasics

**Vendor:** College-Hill Press

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00each, \$395.00set

This program package reinforces basic reading skills in adults. The client reads the stimulus word or phrase and selects the appropriate response from three to five possible choices. There are 50 to 75 drills (stimulus word/phrase plus multiple choice responses), each pre-selectable and modifiable. The therapist or teacher can select up to three presentations of each drill: pre-training, training, post-training. Response choices are randomized. Lesson statistics (pre- and post-training error rates and response times) are automatically calculated, displayed, stored and printed. Input is via the computer keyboard.

The program is available as a full set of nine topics or individually by topic. Reading recognition and comprehension drills cover these topics: associated nouns, modifiers, antonyms, closure, definitions, categories, synonyms, nonassociated nouns, and yes-no questions. A demonstration disk is available for \$10.00.



**Product Name:** Computerized Training Systems (CTS) Nuts & Bolts

**Vendor:** Conover Company, The

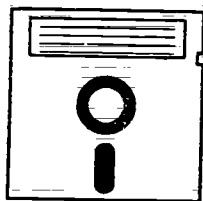
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$495.00 - \$795.00

Computerized Training Systems (CTS) Nuts & Bolts System is a vocational training program to teach mechanical assembly skills. Nuts & Bolts systematically teaches how to perform 24 assembly tasks using Exploded View Assembly Drawings, pictorial representation illustrating the assembly or disassembly of a unit which has several removable parts. Different skill levels vary how much the task is broken down for the user, and a variety of instructor options are available to modify features of the program.

The system utilizes graphics (a color monitor can be used) and an optional Echo II Speech Synthesizer. For \$495.00, the system includes 18 disks and a training manual. The system with hardware for assembling parts sells for \$795.00.



**Product Name:** Concept Formation: Shape Matching

**Vendor:** Conover Company, The

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$39.95

Shape Matching is a shape recognition training program designed to teach preacademic and prereading skills. The program teaches the recognition of six basic shapes: cross, square, circle, triangle, semi-circle, and star. Shapes to be matched are presented at the bottom of the screen and the user operates the space bar and return key to select responses. The task varies in difficulty as a function of number of distractors, color cues, and the elimination of incorrectly matched distractors.



**Product Name:** Core Reading and Vocabulary Development

**Vendor:** Educational Activities, Inc.

**Computer:** Apple II family, Commodore 64, IBM PC family, IBM PC jr, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$599.00 for set

Core Reading and Vocabulary Development is a language skills training program for reading levels of 1.0 to 3.0, intended for older children and adults. Students begin with 35 basic words and progress to over 200 through various activities. Tasks include reading, timed reading, question/answer, visual-memory development, spelling, writing, and problems that model and encourage thinking, vocabulary development, and phonetic patterns.

Price listed is for complete set of 18 disks, 18 back-up disks, 108 reproducible activity masters, and a teacher's guide. Contact manufacturer for more information.



**Product Name:** Counting Critters

**Vendor:** MECC (Minnesota Educational Computing Consortium)

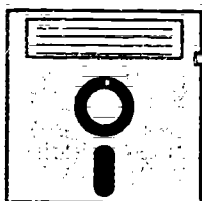
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.00

Counting Critters is a mathematics training program to provide practice in basic number skills for preschool and kindergarten aged children. Five different programs provide tasks such as matching identical numerals, counting safari animals, and playing other games to sharpen skills at working with numbers from one to twenty.

Input can be made via the keyboard or a single switch. Single switch input will require a proper interface.



**Product Name:** CREATE

**Vendor:** CREATE

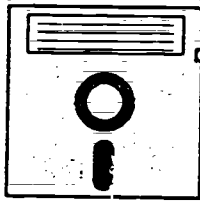
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$375.00 (set)

CREATE is a set of evaluation and treatment exercises for use in cognitive rehabilitation therapy. There are six programs. ORIENTATION incorporates 50 questions relating to pertinent information in reference to person, place, and time. VISUAL MEMORY offers flexibility in length of exposure time and complexity of numbers, words, and figures for memory retention. VISUAL DISCRIMINATION presents figure, shape, size and color trials that allow for contrast and comparison in feature analysis. VISUAL-MOTOR INTEGRATION requires the client to maneuver through mazes varying in width and complexity of design. VISUOSPATIAL CONCEPTS reinforces spatial relationships between objects with graphic designs. VISUAL ORGANIZATION uses a multiple choice format to find the missing part to complete a figure, and includes the dimension of figure-ground analysis. Results can be printed out.

The set of all 6 programs is \$375.00. Each individual program is \$65.00. A demonstration disk of all six programs is available for \$2.00.



**Product Name:** CTS: Electronic Assembly & Soldering

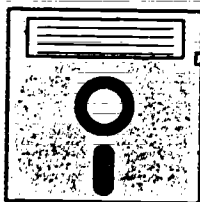
**Vendor:** Conover Company, The

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$495.00 - \$795.00

CTS: Electronic Assembly & Soldering is a vocational training program to teach basic electronic assembly, soldering safety, and proper soldering and desoldering techniques. Program is adaptable to user skill level and tasks to be learned. System includes professional tools necessary for training, a parts tray, associated hardware, and package case, as well as software training disks. Voice output via a speech synthesizer is provided for users with reading difficulty. The system is sold in two forms: the complete kit with hardware and software is \$795.00 and the software and manuals alone are \$495.00.



**Product Name:** Deafsign

**Vendor:** Advanced Computer Services

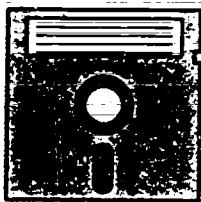
**Computer:** TRS-80 Model III

**Manual Form:** Electronic, Printed

**Cost:** See below

Deafsign is a tutorial program that uses video graphics and accompanying text to teach finger spelling. Deafsign comes with tutorial demonstration, quizzing, and graded testing functions. The program features continual student interaction and a translating section that interprets typed words, letters, or phrases and converts them to finger spelling. Input is made via the computer keyboard.

Cassette version is \$49.95. Disk without TRS-DOS is \$59.95. Disk with TRS-DOS is \$69.95.



**Product Name:** Drills in Language Concepts

**Vendor:** College-Hill Press

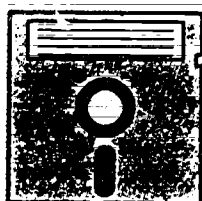
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00each, \$765.00set

This program package reinforces basic language skills in sentence level drills. It is appropriate for adults or children reading at approximately the fourth grade level. The client reads the stimulus sentence that appears on the monitor and selects the appropriate response from a list of three to five possible choices. Stimulus sentences are preselectable and modifiable. The teacher or therapist can select up to three presentations of each drill: pre-training, training, and post-training. Lesson statistics (pre- and post-training error rates and response times) are automatically calculated, displayed, stored, and printed. The program is available as a full set of 18 topics (\$765.00), in sets of any 12 topics (\$540.00), sets of any 6 topics (\$285.00), or individually (\$50.00). Topics include: pronouns, adjectives, plural nouns, past tense verbs, abbreviations, contractions, synonyms, homonyms, prefixes/suffixes, prepositions, adverbs, noun-verb agreement, numbers, negatives, comparisons, antonyms, homonyms II, and analogies. Selections are made on the computer keyboard.

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**Product Name:** Early Learning I

**Vendor:** Marble Systems

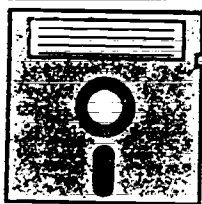
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$45.00

Early Learning I is a program for teaching recognition of colors, shapes, numbers, and letters. The four lessons included are: Matching Colors, Learning Shapes, Counting Numbers, and Letter Match. All have the option of being controlled with a single switch, joystick, or paddles; in the single switch mode, the program asks for a yes or no response with no as default value. A speech synthesizer responds with spoken yes or no, or some other user programmed signal for reinforcement.

An Echo II speech synthesizer is required to run Early Learning I. For the Matching Colors lesson a color monitor is required.



**Product Name:** Early Learning II

**Vendor:** Marble Systems

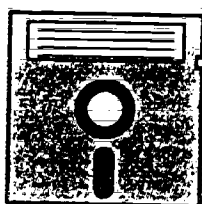
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Early Learning II is a program for teaching addition and number sequencing. The lessons Early Addition I and II teach addition with the graphic presentation of objects for reinforcement. The lessons Sequencing Up and Sequencing Down teach number sequences by requesting the student to fill in a missing number. All four lessons have the options of single switch control and synthesized voice reinforcement. All lessons have increasing levels of difficulty.

An Echo speech synthesizer is required for the option of voice reinforcement.



**Product Name:** Edmark Reading Program, Level 1

**Vendor:** Edmark Corporation

**Computer:** Apple II family

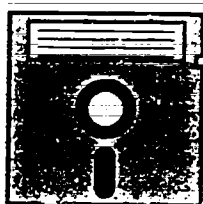
**Manual Form:** Printed

**Cost:** \$450.00 - \$600

This is the software version of the Edmark Reading Program, a highly repetitive sight word approach for students from age three to adult. The student uses a joystick to make selections, no keyboard use is required. The same prerequisites of the printed program apply: the student must be able to point, say or sign back a response, and have enough receptive language to understand the cues. Lessons move from pre-reading matching to word recognition, matching words to pictures, matching phrases to pictures, and short illustrated stories. A management system allows the teacher to maintain data on up to 30 students at one time.

Use of an Echo speech synthesizer is optional to provide verbal cues and reinforcement that differs to suit student response. The Edmark Reading Program for \$450.00 consists of one system disk and 15 lesson disks. For \$580.00 the system also includes a joystick and speech synthesizer; a back-up disk is also included for a package price of \$600.00.





**Product Name:** Edufun

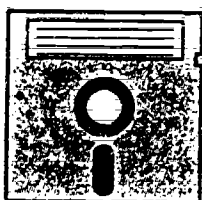
**Vendor:** Terpenning, Joseph L.

**Computer:** TRS-80 Model III

**Manual Form:** Printed

**Cost:** \$10.00

Edufun is a skill building program offering progressively more difficult problems in addition, subtraction and multiplication, stories displayed at an increasing rate to develop reading speed, and a spelling improvement tutorial using a look and remember concept. For every problem answered correctly, a star is printed on the screen. Correct answers appear for each incorrect response. Edufun displays 32 characters per line to increase text readability. Program is operated from keyboard input.



**Product Name:** Elephant Ears

**Vendor:** Ballard & Tighe, Inc.

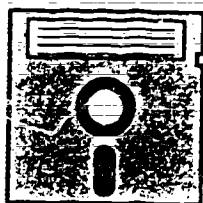
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.00

Elephant Ears uses animation to visually illustrate position concepts while displaying the words for beginning readers. Program provides spoken words in synthesized speech so that the student who cannot read can use the program. Fifteen prepositions are covered. Instructional practice is followed by review or assessment sections. The student has the opportunity to try again if incorrect. Reporting and compilation of performance data is possible for teachers or administrators.

Elephant Ears is available for the Apple II + or IIe, and comes in English (with potential for voice output), or in an English and Spanish version (no voice output). An Echo + speech synthesizer is required for voice output when applicable.



**Product Name:** Exploratory Play

**Vendor:** PEAL Software

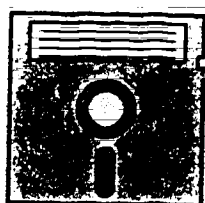
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$120.00

Exploratory Play is a program designed to teach physically and mentally handicapped students to communicate by indicating drawings representing desired activities or objects. Color line drawings (included) are assembled as overlays for a membrane keyboard. When the child presses a picture on the membrane keyboard, an identical graphic appears on the screen and the corresponding word is spoken by a speech synthesizer. Exploratory Play is meant for students with a developmental age of eighteen months to three years.

A Muppet Learning Keys membrane keyboard is required for input. An Echo II or Echo + is required to use Exploratory Play with an Apple IIe; a Cricket is required for the IIc. Toys corresponding to the overlay symbols are available from Peal. All of these peripherals and options are at extra cost.



**Product Name:** EZ Pilot for PowerPad

**Vendor:** Dunamis, Inc.

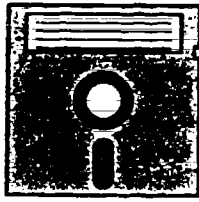
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

EZ Pilot for PowerPad is an authoring system designed for teachers, parents and students who are not experienced computer programmers, employing only eight main commands. Lessons and language experience stories that include colorful graphics can be created. Applications programs using an Echo + or Echo II speech synthesizer are also possible. Several demonstration lessons on the sample disk help teach the commands. Graphics are created with the MicroIllustrator program and the PowerPad (also from Dunamis; see entries).

A PowerPad and an Echo + or Echo II speech synthesizer are required to run the system. A general version of the EZ Pilot is available from Hartley Courseware.



**Product Name:** Fact Master

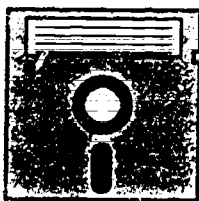
**Vendor:** Morning Star Software, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00 each

Fact Master is a math training program with 26 levels for each learning program. Each level consists of a set of related facts that are introduced by modelling. Types of facts covered in different packages are addition, subtraction, multiplication, and division. Fact Master requires immediate, delayed and random responses for each fact, and follows up with practice lessons and mastery tests. The system collects, analyzes, and reports performance data. Input is via the computer keyboard.



**Product Name:** Fay's Word Rally

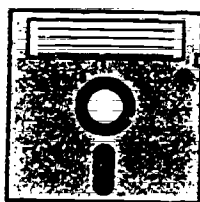
**Vendor:** Didatech Software, LTD

**Computer:** Apple II family, Commodore 64

**Manual Form:** Printed

**Cost:** \$29.95 - \$49.95

Fay's Word Rally is designed to provide a motivating format for improvement of reading skills. The student has to race through a maze to find the correct word to match a clue given at the bottom of the screen. The program contains 720 words, clues, and pictures graded into 80 sets of 9 words. An authoring system lets the teacher create individualized words, clues, and pictures. The home edition of the program is \$29.95, the school edition costs \$49.95. Lab packs are also available. Input to the program is via the computer keyboard.



**Product Name:** Fay: That Math Woman

**Vendor:** Didatech Software, LTD

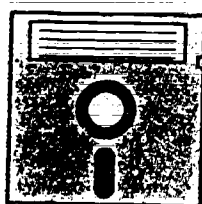
**Computer:** Apple II family, Commodore 64

**Manual Form:** Printed

**Cost:** \$29.95 - \$39.95

FAY is a graphic character who helps children develop a firm grasp of basic math concepts using number lines. FAY shows the child's answer by walking, or leaping along the number line. In multiplication and division FAY makes leaps to reinforce the concept of 'groups of' equal numbers. Her steps or leaps are accompanied with sound to help the child count along. FAY always shows the correct answer when necessary. The child's progress can be evaluated by printing their errors and answers. Input to the program is via the computer keyboard.

The home edition of the program is \$29.95. The school edition is \$39.95. Lab packs are also available.



**Product Name:** Fay: The Word Hunter

**Vendor:** Didatech Software, LTD

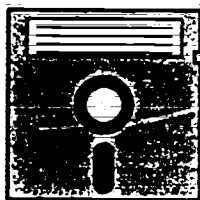
**Computer:** Apple II family, Commodore 64

**Manual Form:** Printed

**Cost:** \$29.95 - \$39.95

Fay: The Word Hunter is designed to help students become more motivated to improve spelling. Fay searches for words hidden in an underwater grid. When a word is located, Fay's laser fires and the target word is exposed. The program contains 3,000 frequently used words and emphasizes the 200 most commonly misspelled words. An authoring system allows creation of individualized word lists. Input to the program is via the computer keyboard.

The home edition is \$29.95. The school edition costs \$39.95. Lab packs are also available.



**Product Name:** FingerSpeller

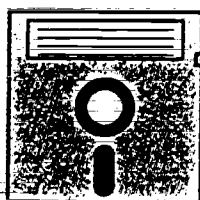
**Vendor:** Clinical Speech Systems, Inc.

**Computer:** Apple Macintosh

**Manual Form:** Printed

**Cost:** \$10.00

FingerSpeller is a program to teach finger spelling on the Macintosh. Graphics of the different hand positions can be printed out. The program is not copy-protected, and may be freely distributed as share-ware. The developer will send it to those interested for \$10.00 to cover expenses.



**Product Name:** Fingerspeller

**Vendor:** Specialsoft

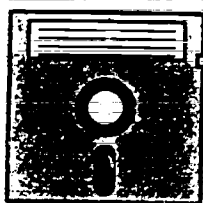
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$199.00

Fingerspeller is a program designed to teach the manual alphabet. The program can generate a line drawing on the computer screen of each of the 26 hand signs. Fingerspeller contains a program that displays the signs with their meaning one at a time, a program that drills and tests the student, a similar program that has voice output, and a program that develops reading rate by projecting sequences of up to 120 signs at an adjustable rate.

An Echo or Cricket speech synthesizer is required to use Fingerspeller with voice output (extra, model dependent upon computer). A program called Fingernumbers which teaches the manual numbers from 0-999,999 is also available (extra).



**Product Name:** First Categories

**Vendor:** Laureate Learning Systems, Inc.

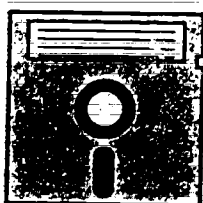
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$120.00

First Categories is a program designed to teach the categorization of nouns. Using the keyboard or an available single switch input option, the student learns to classify 60 nouns in six categories. The scanning speed and number of times each position will be scanned before continuing to the next stimulus presentation are both user adjustable. The first level of training uses graphics, text, and speech to train nouns from each category. The second, third and test levels use text and speech only; some reading skills are required for these levels.

An Echo II or Cricket speech synthesizer is required to use First Categories (extra). A single switch and interface are optional (extra).



**Product Name:** First Shapes

**Vendor:** First Byte, Inc.

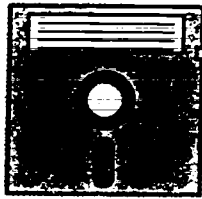
**Computer:** Apple Macintosh, Atari ST family,  
Commodore Amiga

**Manual Form:** Printed

**Cost:** \$49.95 - \$59.95

First Shapes utilizes graphic representations of concepts and the built-in speech capabilities of the Macintosh and Amiga to allow non-reading students to use the program independently. A character named Ted.E.Bear provides directions, personalized comments and reinforcement that can be designed by a teacher or parent. The program has several learning modules. In Shapes, the child can name the basic shapes, make Ted.E.Bear talk, and make shapes change in size. The Toy Factory gives the student the opportunity to combine shapes to build toys. Each student has a Toy Box for storage, viewing and deletion of toys. In the Toy Fair, students select shapes named by the Bear to win an arcade game. Make a Match Game focuses on matching of shapes and toys, with three levels of difficulty. Helper Controls allow an adult to individualize activities, change speech controls, make reward messages, set levels of difficulty, and turn off or on learning activities.

Price range depends on which computer the software will be used with: contact manufacturer for details.



**Product Name:** First Verbs

**Vendor:** Laureate Learning Systems, Inc.

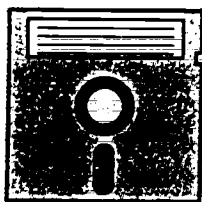
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$200.00

First Verbs is a program that uses animated pictures to train verb comprehension for 40 verbs. The student is offered two animated graphics and asked (with synthesized speech) which one represents a given verb. The possible answers are scanned. Choices can be made either with a single or dual switch (extra) or from the computer keyboard. The synthesized voice is female.

An Echo II or Cricket speech synthesizer is required to use First Verbs (extra).



**Product Name:** First Words

**Vendor:** Laureate Learning Systems, Inc.

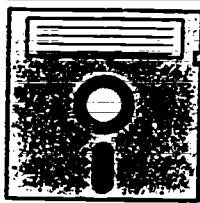
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$185.00

First Words is a program that uses graphics and synthesized speech to teach and test 50 high frequency nouns. The program uses the female voice provided with the Echo or Cricket speech synthesizer. The student is presented with two graphics and asked to decide which one represents a particular noun. The choices are scanned, and selections can be made with a single or dual switch, on a touch sensitive screen, or on the computer keyboard (switch or touch screen extra).

An Echo II or Cricket speech synthesizer is required to use First Words (extra).



**Product Name:** First Words II

**Vendor:** Laureate Learning Systems, Inc.

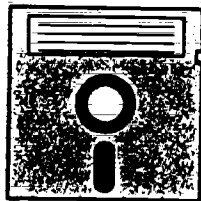
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$200.00

First Words II is an extension of First Words, providing 50 more nouns for the student to learn to identify. The female voice provided with the Echo or Cricket speech synthesizer asks the student to choose which of two graphics represents a given noun. The choices are scanned, and selections may be made with a single or dual switch, on a touch sensitive screen, or on the computer keyboard (switch or touch screen extra).

An Echo II or Cricket speech synthesizer is required to use First Words II (extra).



**Product Name:** Floppy Teaches Series

**Vendor:** Conover Company, The

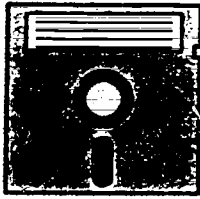
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$34.95 - \$39.95 each

Floppy Teaches Series is a series of letter and concept training games to teach letter formation and recognition, and visual matching skills. Five different programs are available, each of which provide various levels of difficulty and program options. Floppy Teaches How to Print Letters and Numerals draws each stroke of a letter or numeral on the screen and prompts the child to print the same on paper. Floppy Teaches Letter and Numeral Recognition presents a capital or small letter or numeral (0-9), and the user must find it from among a group of four or more options. Floppy Teaches What is Missing? presents whole objects (person, house, car) and visually signals the user to select the missing part of the object from two choices. Floppy Teaches Same and Different presents pictures of objects and letters and asks the user to decide which are same or different, in different levels of complexity. Floppy Teaches Match-Ups in Mazes presents matching objects such as knife and fork and numerals with number words, and asks the user to move an item through a maze to its corresponding item.

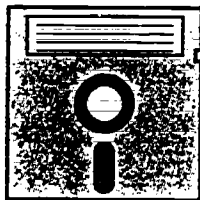




**Product Name:** Following Directions  
**Vendor:** Laureate Learning Systems, Inc.  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$225.00

This two-disk program provides practice in following one and two step directions. Multiple levels present the exercises in progressively more difficult steps. The directions are spoken by the speech synthesizer in a female voice, a design feature intended for nonreaders. Input is made by the student on the computer keyboard.

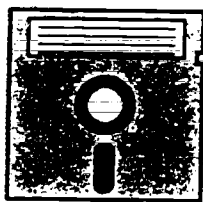
The Echo II or Echo + speech synthesizer is required to run Following Directions on the Apple IIe or II+, the Cricket is required for the IIC.



**Product Name:** Foundations I  
**Vendor:** Psychological Software Services, Inc.  
**Computer:** Apple II family, Atari,  
IBM PC family, IBM PC jr  
**Manual Form:** Printed  
**Cost:** \$250.00 - \$300.00

Foundations I is a series of seven types of visual and auditory reaction training programs. Simple Visual Reaction Time I-II records reaction time to a square presented randomly in time and place. Visual Reaction Stimulus Discrimination I-II records reaction to choice of colored square presented at random intervals. Visual Reaction Differential Response records right or left reaction to a square presented on either side of a vertical line. Visual Reaction Auditory Prestimulus operates like Simple Visual Reaction, but includes a tone prior to the square, to signal to inhibit response. Simple Auditory Reaction measures response time to a tone. Visual Scanning records accuracy and speed of user response to a randomly presented variation in a tracking line. Visual Discrimination Differential Response I & II requires user to make a discrimination between two possible stimuli, and respond with either the left or right hand.

All programs require use of joystick for operation.



**Product Name:** Foundations II

**Vendor:** Psychological Software Services, Inc.

**Computer:** Apple II family, Atari,  
IBM PC family

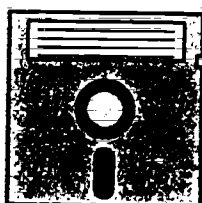
**Manual Form:** Printed

**Cost:** \$300.00 - \$350.00

Foundations II is a series of seven types of visual scanning, tracking, and reaction training programs. Visual Reaction Multiple Stimuli records reaction time to change in stimuli color. Visual Tracking records percent success of reaction to change in color of a randomly tracking stimulus. Visual Scanning II records reaction time and success to recognize a cluster of digits surrounding a presented target symbol (e.g. \$, #, or %). Visual Scanning III records search reaction times for user to scan one vertical column of letters to select a pairs of letters to match a corresponding pair of highlighted letters. Multiple Attention/Response requires the user to control the needles of 1-5 dials to stay within a target zone. Complex Attention records speech and accuracy at indicating if the sum of three single digits is odd or even. Simultaneous Multiple Attention records success at determining when moving stimuli surround a target colored block. Joystick input is used and data is collected for all programs.

A color monitor is required to run Foundations II.

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**Product Name:** Fun With Math

**Vendor:** Speech Enterprises

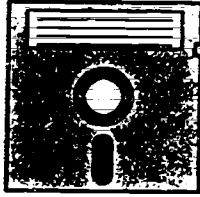
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Fun With Math is a program that teaches math through the use of ten games. The games may be run with just the screen display, or may be run with both the screen display and a speech synthesizer for voice output. The program is designed so that no distracting sound effects will be generated and no graphics characters will be spoken through the speech synthesizer.

Fun With Math requires an Apple IIe or II+ with at least 48K of memory and one disk drive. An Echo speech synthesizer is required for voice output. Contact manufacturer for details regarding math concepts that are covered.



**Product Name:** Function Recognition

**Vendor:** Brain-Link Software

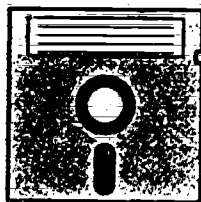
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$109.00

Function Recognition is a word comprehension program which contains six units that teach comprehension of verbs. This program can run independently or as a companion to the Word Recognition program (see entry by same manufacturer). The verbs chosen for the Function Recognition program are designed to complement the nouns chosen for Word Recognition, to allow comparison of noun and verb comprehension abilities if the two programs are used together. Verbs are spoken by the speech digitizer (see below). The client is to select the verb which has been spoken from an array of drawings.

Input can be via keyboard, joystick, or Koala Pad. The required speech digitizer is the Mountain Computer Supertalker SD200 (see separate entry).



**Product Name:** Getting Started in Arithmetic Series (and Sam's Store)

**Vendor:** AIMS Media

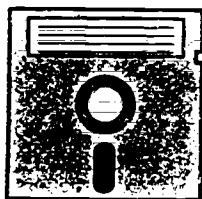
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$34.95 each (see text)

Getting Started in Arithmetic consists of four disks, one each for addition, subtraction, multiplication and division, plus a fifth disk called Sam's Store that covers counting change in a story problem format. The programs feature large print and voice output for instructions and reinforcement. Low resolution graphics are used to generate less detailed large character images for low vision students. Each disk contains from six to eight programs, all menu-driven. Menus are in print format. The speed of the lesson is user-defined, and the programs wait for the user to press a key before continuing.

The fifth disk is included for free to those ordering all four of the other disks. A supplemental videotape is also available. Contact the manufacturer for more information. Voice output is optional, and if desired the user needs an Echo speech synthesizer (model dependent on the Apple II family computer being used).



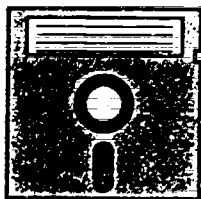
**Product Name:** Guessing and Thinking  
**Vendor:** MECC (Minnesota Educational Computing Consortium)  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$139.00

Guessing and Thinking consists of three programs designed for grades 6 through 9. "Herkle" teaches the student how to locate points on a number line, and "Bagels" and "Numbers" help sharpen logic skills. The program is operated using computer keyboard input. Contact manufacturer for additional information.



**Product Name:** H2 Handicapped Arithmetic Flash Cards  
**Vendor:** E. David & Associates  
**Computer:** TRS-80 Model III  
**Manual Form:** Printed  
**Cost:** \$24.95

H2 Handicapped Arithmetic Flash Cards is a math practice program for persons unable to type on a standard keyboard. The program provides seven units with practice in simple addition, subtraction, and multiplication. Contact the manufacturer for further information about input methods using this program.



**Product Name:** Hand/Eye Coordination Programs

**Vendor:** Edutek Corporation

**Computer:** Apple II family

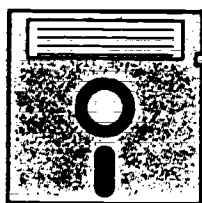
**Manual Form:** Printed

**Cost:** \$45.00 for set

Hand/Eye Coordination Programs is a set of five programs designed to train perception and coordination. Cooperation Maze is a game for two users, who move a cursor cooperatively through a maze to avoid obstacles. Write it in Color is a beginning keyboard training program which displays in large, colored print any letters, numbers, or symbols typed on the keyboard. Make a Tune allows persons with no musical knowledge to create and play tunes of up to ten notes, by selecting from notes displayed as a scale and choosing whether notes should be fast or slow. The program coordinates a colored light show with the melody and variations. Computer Palette allows user to create pictures in 16 colors by "pulling" colors from a graphic palette with the screen cursor. Pictures can be stored, edited, filed, and displayed. The Typewriter Practice Program allows the user to operate the keyboard as a typewriter with some editing functions, with audible clicks to simulate a typewriter.

Programs require a single disk drive, game paddles or joysticks for some programs, and optional color monitor. Price for set of programs is \$45.00, or separately for \$20.00 - \$25.00.

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**Product Name:** HELP Linguisk

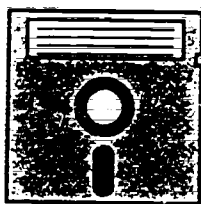
**Vendor:** LinguiSystems, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

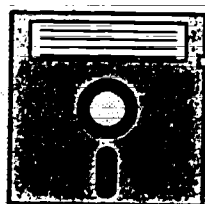
**Cost:** \$34.95

The HELP Linguisk provide drill on associations through functions and attributes, categorization through completion and labeling tasks, and questions by answering wh-questions. The program can be used by all ages, but requires basic reading skills. The keyboard is used for input. Automatic scoring is a feature of the program. Scores can be reviewed on the screen or can be printed out for a permanent record.



**Product Name:** Holidays  
**Vendor:** Sunset Software  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$49.95

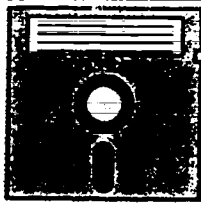
Holidays is a special topic vocabulary training program to teach the names of twelve holidays. The program presents drawings representing a holiday, and user is asked to enter the holiday or any other teacher-specified target word. Task cues such as letter cues, multiple choices, modeling, and copying words can be adjusted to match user skill level. Program also saves and analyzes user performance, and can produce homework based on user mistakes. Program is operated from keyboard input.



**Product Name:** I Can Talk  
**Vendor:** Soft Cole  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$74.95

I Can Talk is a program designed to teach scanning selection for communication. The program has a communication option and a teaching option. In the communication mode, the screen is divided into a grid of sixteen squares, each containing a word and a picture representing that word. A cursor scans through the squares, and the student makes selections by activating a single switch plugged into the game port of the Apple. When the selection is made, a speech synthesizer speaks a phrase pertaining to the word. In the teaching mode, the speech synthesizer speaks a phrase and the student must choose which of four words (with pictures) matches the phrase.

A compatible speech synthesizer (Echo or Cricket; see entries) is required to run I Can Talk. The manufacturer will add custom words and pictures to the program at additional cost.



**Product Name:** IDEA Cat

**Vendor:** Ballard & Tighe, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$142.00 each level

IDEA CAT (Computer Assisted Teaching) was designed to supplement and reinforce the IDEA Oral Language Program, a developmental English-as-a-Second Language (ESL) program that teaches basic oral language skills in a diagnostic-prescriptive framework. IDEA CAT can also be used to train basic language skills for any other ESL programs, if needed. Vocabulary, following directions, descriptive words, grammatic structure, articulation and verbal expression skills are taught in three difficulty levels (additional levels are being developed). Level I is also available in Spanish, without speech output options.

The program comes in two sets of three disks each for the Apple II+ or IIe. Speech is available on the IDEA CAT disks, and requires an Echo + speech synthesizer. The program will function without the synthesizer, however. Accessories for the Echo + sold separately by Ballard & Tighe include stereo earphones and volume control (Magic II) or mono earphones. Contact the manufacturer for more detailed information on the language structures covered in Level I and Level II.

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**Product Name:** Idioms in America

**Vendor:** Communication Skill Builders

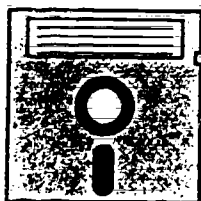
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$39.95

Two word idiom lessons each present 4 groups of 10 idioms with their meanings. Students read the idiom in a sentence, read its definition, and then create original sentences using that idiom. The sentences can be printed out, or the computer can say the sentences if an Echo speech synthesizer is used.

Comprehension can be checked with two multiple choice quizzes that correspond to the lessons. The program presents an idiom in a sentence and then gives the student four possible meanings. Positive feedback is given for correct answers, corrective feedback for errors. Program is operated using keyboard input.



**Product Name:** Job Readiness Series

**Vendor:** MCE Inc.

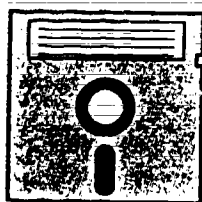
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$199.95 for series

Job Readiness Series is a vocational training program that helps teach job readiness skills and behaviors in four different programs. Job Attitudes: Assessment and Improvement evaluates and recommends ways to improve attitudes for job success. Filling Out Job Applications leads users step-by-step through completing a job application. Successful Job Interviewing teaches users tips on how to plan and implement a successful interview. Resumes Made Easy uses a conversational style to motivate students to think about and develop their resumes.

Reading level of the programs is rated grades 3 to 4, while the interest level is rated grade 9 to adult. Each of the four programs is also offered separately for \$54.95 each.



**Product Name:** Job Survival Series

**Vendor:** MCE Inc.

**Computer:** Apple II family

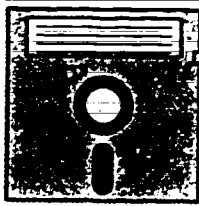
**Manual Form:** Printed

**Cost:** \$149.95 for series

Job Survival Series is a vocational training program in three parts designed to train job skills and work habits. First Day on the Job teaches how to make a good impression with employers through job simulations, decision making and seeing consequences of choices. Personal Habits for Job Success presents and analyzes user's ability to make positive decisions in four simulated on-the-job situations. Work Habits for Job Success teaches aspects of good work habits and provides insight into probable success on a job given good habits.

Program series is available in two reading levels: grades 2-3 and 5-6. Each program in the series is also available separately for \$54.95.





**Product Name:** K.L.S. - Cognitive Educational System

**Vendor:** Lambert Software Company

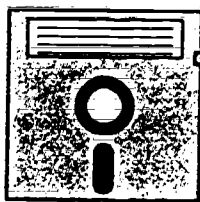
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$275.00 (see below)

The Cognitive Educational System is a series of 38 programs with a variety of stimuli to teach perception, memory and problem solving skills. The programs have varying degrees of difficulty, from very low level tasks to lessons dealing with higher level skills. Stimuli are primarily graphics rather than printed words.

The entire system consists of six disks, available for the entire Apple II family of computers. Three of the disks provide a record keeping feature, three do not. There are two of the sub-systems that can be purchased separately for \$75.00 each. Memory Master is designed as a short term memory aid. Fun With Poker deals with higher level perceptual skills. Contact manufacturer for more information.



**Product Name:** Kennedy Handi-Math Program

**Vendor:** Kennedy Memorial Hospital for Children Education Dept.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$100.00

The Kennedy Handi-Math Program provides multi-handicapped children with a computer based developmental math curriculum, encompassing skills from counting through simple division. It turns the computer screen into a flexible work space for students who are unable to utilize a pencil and paper due to physical/motor limitations. It enables the student to direct cursor movements, top-to-bottom and left-to-right as they compute problems which require regrouping. This provides the student with a problem solving experience with the ability to delete and manipulate on-screen information and activity. There are 42 teacher determined parameters available within the software to individualize the reinforcement schedule, visual and auditory feedback, large or small character size, user-input requirements and level of difficulty.



**Product Name:** Keyboarder

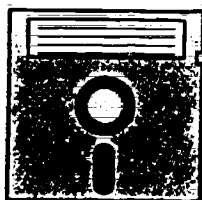
**Vendor:** Sunset Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

Keyboarder is a program designed to teach the position of letter and number keys on the computer's keyboard. Sound and large-size characters are used. An image of the keyboard appears on the screen, and the user is prompted to select a certain letter. Incorrect responses elicit a cue showing the location of the correct response. Contact manufacturer for details regarding description of the type of prompts, and types of reinforcement for answers.



**Product Name:** Keyboarding For The Dyslexic

**Vendor:** Educational Electronic Techniques,  
I.T.D

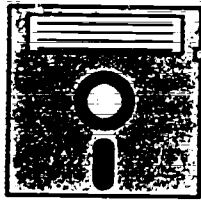
**Computer:** Apple II family, Atari 800,  
Atari 800XL, Commodore 64,  
TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$149.95

Keyboarding For The Dyslexic is a visually cued keyboarding program designed to meet the specific needs of individuals with dyslexia and other perceptual disabilities. Each lesson incorporates the "split screen" approach. The upper screen sequentially monitors the user's performance on the lower screen thereby providing immediate reinforcement and eliminating frustration. After mastery of the first 10 lessons, the basic elements of word processing are introduced. The user is able to type, save, recall and print.

All 10 lessons may be accompanied by optional audio cassettes that are simultaneously presented and synchronized with the keyboarding lesson (\$50.00 extra).



**Product Name:** Keyboarding for the Physically Handicapped

**Vendor:** Gregg/McGraw-Hill

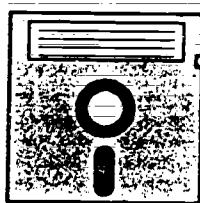
**Computer:** Apple II family, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$145.00

Keyboarding for the Physically Handicapped is a touch-typing tutorial program for disabled individuals. The program provides the user with many options for combinations of fingers on either or both hands to be used during typing. Each option contains a chart showing which fingers to use for the home-row keys and which to use to reach other keys. Separate speed tests and drill materials help the user to build keyboard typing skills.

Keyboarding for the Physically Handicapped is available for the Apple II series with 128K, the IBM-PC, and the TRS-80 Model III or 4.



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**Product Name:** Keyboarding for the Visually Limited

**Vendor:** Educational Electronic Techniques, LTD

**Computer:** Apple II family, Atari 800, Commodore 64, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Audiotape, Printed

**Cost:** \$149.95

Keyboarding for the Visually Limited is a program that instructs visually impaired individuals in the use of a keyboard. The Program uses large print readout, and also instructs the user in the basics of word processing. Keyboarding for the Visually Limited can provide full printout. After mastery of the first 10 lessons, the basic elements of word processing are introduced. The user is able to type, save, recall, and print.

Optional audio cassettes (extra) are available for synchronized use with each lesson.



**Product Name:** Keyboarding with One Hand

**Vendor:** Educational Electronic Techniques, LTD

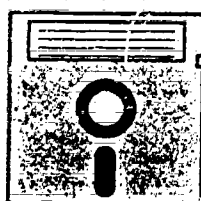
**Computer:** Apple II+, Apple II family, Atari, Commodore 64, IBM PC family, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$149.95

Keyboarding with One Hand is a program that instructs and drills an individual with use of only one hand in efficient keyboarding. The program allows full printout. After mastery of the first 10 lessons, the basic elements of word processing are introduced. The user is able to type, save, recall, and print with this program.

Keyboarding with One Hand consists of two disks, one containing instruction material, another containing a series of drills.



**Product Name:** Keys to Success: Comp. Keybd. Skills for Blind Children

**Vendor:** Life Science Associates

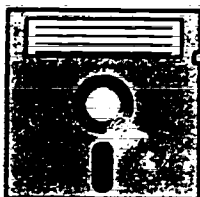
**Computer:** Apple II family

**Manual Form:** Braille/Tactile, Printed

**Cost:** \$35.00

Keys to Success: Computer Keyboard Skills for Blind Children is a voice output program to help blind and partially sighted children learn the computer keyboard layout. Program includes keyboard tutorial, keyboard practice, timed keyboard practice, and a timed game for two players.

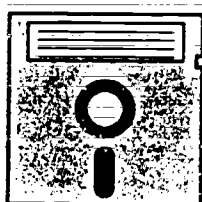
System requires an Echo II for voice output capabilities.



**Product Name:** Keytalk  
**Vendor:** PEAL Software  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$59.00

Keytalk is a beginning reading program designed to teach physically or mentally handicapped students to structure spoken language by using a computer to read and write. The student is encouraged by the teacher to spell out the names of objects or activities he is interested in as a way of communicating those interests. As the student enters letters on the keyboard, they appear on the screen and a speech synthesizer speaks them aloud. Words and sentences can be spoken by pressing the space bar, or sentences can be heard by putting in punctuation marks. Results can also be printed. Keytalk can function as an electronic communication aid as well.

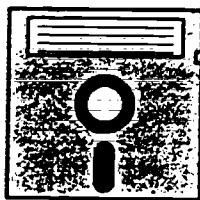
Keytalk is meant for use with students with a developmental age of three to eight years. An Adaptive Firmware Card is required for operation with the Unicorn Expanded Keyboard. An Echo II or Echo+ is required to use Keytalk with the Apple IIe or II+, a Cricket is required for the IIc.



**Product Name:** Kindermath II  
**Vendor:** Kindermath  
**Computer:** Apple II family, Commodore 64  
**Manual Form:** Printed  
**Cost:** \$150.00-\$330.00

Kindermath is a series of 90 different lessons for development of math skills. A joystick is used for input, and feedback is given by both the visual display and the speech synthesizer. The programs include: Sets, Numerals, Shapes, Patterns and Concepts, Math Signs, Addition and Subtraction, and Math Skills Assessment. Lessons are self-paced. Teachers can assess developmental levels of their students using a placement test that comes with the software. Scores for each lesson are displayed.

Prices vary depending on the computer. The complete 13 disk system costs \$150.00 for Commodore computers and \$330.00 for Apple computers. Individual programs may be purchased separately, and a free demonstration disk is available. The series also comes in a print format with manipulatives.



**Product Name:** Language L.A.B.

**Vendor:** Specialsoft

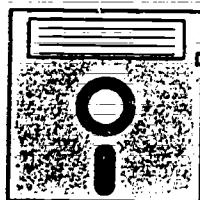
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$399.00

Language L.A.B. is a set of four programs for teaching basic language skills. Flashcard displays single symbols (pictures, shapes, letters, etc.) with their corresponding words. Comboard displays a clock face with a pointer hand that moves, pointing in turn to various symbols; the student tries to select a target symbol by activating a single switch. Tutor/Trainer displays an array of symbols with a cursor that scans from one to the next. Again, the selection is made with a single switch. Tutor/Tester works like Tutor/Trainer, but allows the instructor to offer target sentences rather than simply target words.

Language L.A.B. comes with two extra disks containing four extra sets of symbols for use in designing lessons, and license to duplicate disks. A video tape demonstrating how to use the system comes with purchase. Additional picture sets can be added for different topics (clothing, functions, feelings, etc.) for \$99.00 each.



**Product Name:** Language Stimulation Series

**Vendor:** Aspen Systems Corporation

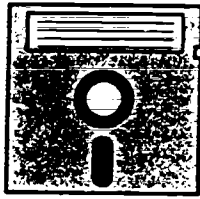
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$55.00/disk

The Language Stimulation Series includes eight programs designed to teach the following: (1) sentence completion: semantics; (2) rebuilding sentences: syntax, (3) grammatical judgement: syntax, (4) associative naming: mixed cues, (5) sentence completions: syntax, (6) selecting modifiers: semantic, (7) reading comprehension: inference, and (8) reading comprehension: reference. Programs use keyboard input to operate program activities.

Language Stimulation Series are sold for \$55.00 per disk. Contact manufacturer for information concerning prices for series of disks, or for questions regarding content of each program.



**Product Name:** Learning Left and Right

**Vendor:** Laureate Learning Systems, Inc.

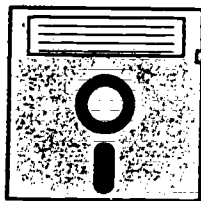
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00

The concepts of left and right and crossover are presented in ten levels of training. The speech synthesizer instructs students and animated characters provides positive feedback. Realistic drawings of hands and objects are used throughout the program. Lesson presentation can be individualized to meet the needs of each student, and lesson summaries can be printed out in hard copy.

An Echo II or Echo + speech synthesizer is required for use with the Apple II+ or IIe, and the Cricket is required for use with the Apple IIc.



**Product Name:** Learning Workshop

**Vendor:** C.C. Publications, Inc.

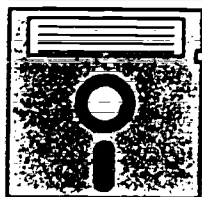
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95each, \$189.95set

The Learning Workshop is a four-disk package to teach numerical and alphabetical order, time-telling and calendar reading skills. Demonstration of each skill is followed by practice and testing. Reproducible worksheets are included also. Teachers can modify the criteria to meet the level of the student. The program allows for selection of the number of trial and test problems, and the criteria for mastery and continuance. Program is operated by keyboard input.

The Learning Workshop package is sold as a set for \$189.95, or by individual programs for \$49.95 each.



**Product Name:** Lenical

**Vendor:** Duncan-Atwell Computerized Technologies, Inc.

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$595.00

Lenical (Computer Aided Learning) system is an authoring program that permits the creation of scientific courses such as Chemistry, Mathematics, Architecture, etc. The instructor can use text, graphics, sound, animation, and speech output to create lessons, drills, and tests. A graphically presented "host" can be made to speak to the student. Input devices that may be used for student responses include the Lenipen light pen, a cursor, mouse, touch tablet, or joystick (all extra).

Lenical requires a color graphics adapter card for color graphics. Among the cards supported is the IBM Enhanced Graphics Card (EGA). Contact the manufacturer for more information on compatible speech synthesizers for use with Lenical authoring program.



**Product Name:** Letter Find

**Vendor:** Handicapped Children's Computer Cooperative Project

**Computer:** Apple II family

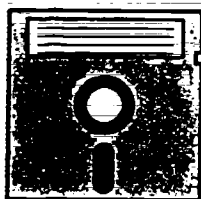
**Manual Form:** Printed

**Cost:** \$29.95

Letter Find is a training program to teach young visually impaired children the position of keys on the keyboard. The teacher can define a range of letters or numbers for the children to find and place, and whether the program should proceed through that range of letters in alphabetical or random order. The computer provides verbal prompts of correctness of answers, and collects data on number of correct answers. The program also includes auditory addition drills.

The program uses an Echo II speech synthesizer. Manufacturers recommend that braille labels be applied to keys for easier access.





**Product Name:** Lightpen Programs for Special Education I & II

**Vendor:** Computer Island

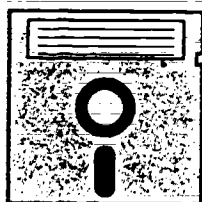
**Computer:** TRS-80 Color

**Manual Form:** Printed

**Cost:** \$44.95 each

Lightpen Programs for Special Education are two programs, each geared at different age or skill levels, which teach and test basic concepts. The student makes selections from menus offered by the program. Selections are made by pointing to the choice on the screen with a light pen (included). Lightpen Programs I covers addition, multiplication, shape series matching, and word rhyming. Lightpen Programs II includes Men of Discovery, Mixed Math, World Capitals, Computer Terms, and Twentieth Century.

Contact manufacturer for further information on hardware characteristics of the lightpen for use with this program.



**Product Name:** Lip-Reader Trainer

**Vendor:** Universe Electric Research Company

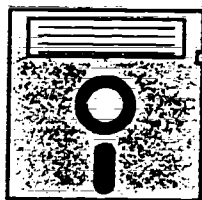
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$125.00

Lip-Reader Trainer is a program designed to teach and drill lip-reading by presenting animated versions of mouth positions on the computer screen. The instructor types in phonetic characters, and the mouth positions for each of them appear on the screen. Pre-programmed sequences of characters may be used for drills. Sequences of words or sentences up to 115 characters in length may be programmed and stored. The program can maintain files of student responses.

The Lip-Reader Trainer is capable of lip-synchronized speech if used with a speech synthesizer (extra); contact manufacturer for information about compatible units.



**Product Name:** Listen to Learn

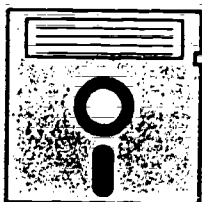
**Vendor:** IBM Corporation

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$195.00

Listen to Learn is a voice output word processing program designed to enhance reading, writing and spelling skills. Different presentation and play-back modes are possible with the program; text presented to the user may be displayed on the monitor and spoken at the same time, or users may type their own text then listen as it is spoken. Words, letters, and phrases can be repeated as many times as needed and teachers can customize text for presentation in language lessons. A user's manual with suggestions for use in teaching is included with software.



**Product Name:** LogicMaster

**Vendor:** Dunamis, Inc.

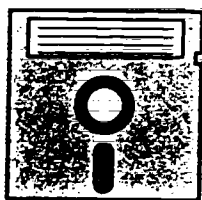
**Computer:** Apple II family, Atari 400, Atari 800, Commodore 64

**Manual Form:** Printed

**Cost:** \$39.95

LogicMaster is a logic development and problem-solving game which can be used with more advanced learning disabled and behaviorallydisordered individuals. The goal of each game is to solve a secret code made up of shapes and colors placed in various positions. The teacher may control the amount of feedback given as clued and the length and content of the secret codes. The Commodore and Atari versions are cartridge based.

The PowerPad (also from Dunamis, see separate entry) is required as input device for program operation.



**Product Name:** Logo TouchTools for the PowerPad

**Vendor:** Dunamis, Inc.

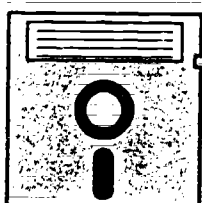
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

Logo TouchTools for the PowerPad is a collection of demonstration programs designed to help users adapt and enhance Terapin LOGO 2.0 or above. The TouchTools are designed to give persons with a wide variety of visual, motor, and cognitive skills access to the computer. The programs allow the PowerPad (see separate entry) to be used as an alternative keyboard for several applications, including single keystroke LOGO, letter, shape, and number identification activities, and access to synthesized speech.

An Apple II+ must have at least 64K of memory to operate with this program. The Apple IIe uses a special configuration for speech output, which includes a super-serial card, Votrax Personal Speech System, and cable to hook Votrax up to the card. Contact manufacturer for compatibility and cost information.



**Product Name:** Magic Slate

**Vendor:** Sunburst Communications

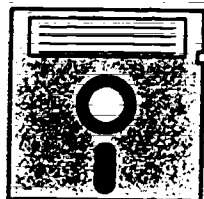
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$99.95

Magic Slate is a word processing package with three levels of proficiency which correspond to three different character sizes displayed on the screen and in hardcopy printout. The three levels of difficulty are: 20-column level with basic features, 40-column level with more advanced features for students in intermediate grades, and 80-column level with the features found in most word processing programs. General commands are introduced in the first two levels; additional commands are added at the third level.

The elementary level with the 20-column display provides large print on the display and the printout, making it useful to students with limited vision. A student handbook which accompanies the program is in large print.



**Product Name:** Math Disk

**Vendor:** Washington Research Foundation

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Math Disk is a math drill/worksheet area program that accepts keyboard input or any of the input methods included on the Special Inputs Disk (see entry, Washington Research Foundation). The program "Math Drill" displays pre-selected math problems for student practice. Math Disk also contains several programs from the Academics with Scanning: Math disk (see entry).

For use with special inputs, one or two microswitches must be substituted for or wired in parallel with the Apple game buttons through the game I/O port.



**Product Name:** Math Power Program

**Vendor:** Instructional/Communications  
Technology, Inc.

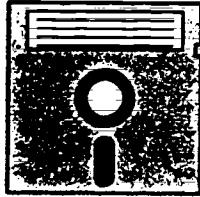
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$160.00 each

Math Power Program is a basic math computational skills program for addition, subtraction, multiplication, and division of either whole numbers, fractions or decimals, and percents (each type of number is taught in a different set of lessons). Each lesson is conducted in three steps. First the user watches the program complete a math problem. Then the user tries a similar problem with guidance from the program. Finally, the user is presented with a series of practice examples exemplifying the step criteria. The program reacts with confirmation, correction, or additional problems or cues depending on user responses.

A total of 12 disks are available, sold in packages of four each for whole numbers, fractions, decimals, and percents.



**Product Name:** Math Scan

**Vendor:** Ankney, Barry R.

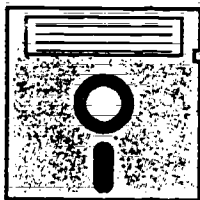
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$20.00

Math Scan is an on-screen math worksheet operated by selecting numerals from a scanning array. The array is also presented on the screen. The user selects by scanning with a game controller or a single switch. All numerals are 1" high on the screen. An instructor may create problem sets, or the program will generate them. Student responses may be recorded on disk, printed on paper, or both.

Math Scan is available in addition and subtraction versions. Multiplication and division are available upon request. A single switch interface is required to operate Math Scan with a single switch.



**Product Name:** Math Scratchpad I

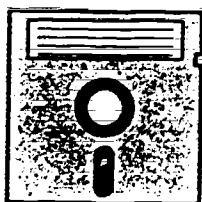
**Vendor:** Zygo Industries, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00

Math Scratchpad I is a screen editing program which allows the screen of the computer to be used as an "electronic paper and pencil." The program allows the cursor to be moved to the appropriate place in a calculation more easily than would be possible with standard cursor movement. Simple routines for addition, subtraction, multiplication, and division are provided, along with mathematical equations. The information can be printed exactly as it appears on the screen, and "help" screens are available at any time.



**Product Name:** Math Scratchpad II

**Vendor:** Zygo Industries, Inc.

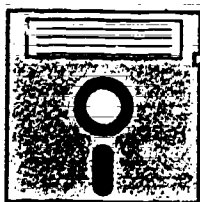
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00

Math Scratchpad II is a screen editing program for the computer screen to be used as an "electronic pencil" that is specially adapted to the circumstances of and special math symbols for algebra, calculus, and printed out.

mathematics. The program allows "pencil," providing cursor movement calculations. Greek characters can be produced, stored on disk,



**Product Name:** Mathtalk

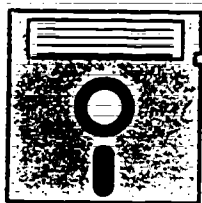
**Vendor:** First Byte, Inc.

**Computer:** Apple Macintosh, Atari ST family, Commodore Amiga

**Manual Form:** Printed

**Cost:** \$49.95 - \$79.95

MathTalk is designed to improve basic addition, subtraction, multiplication and division skills. Each child can progress independently, progressing at their own rate. The built-in speech synthesis technology of the Macintosh, Atari, and the Amiga allow the program's "tutor", Professor Matt A. Matics, to give verbal directions to the student. There are several learning modules. In Math Book, the student enters problems that relate to homework skills being worked on in class, and can receive tutorial help. Solve It guides the student through problems with graphic and spoken assistance by the "Professor" when answers are incorrect or help is requested. Scoreboard is a test simulation mode which measures improvement. Table Talk and Mystery Number are skill building games, and Record Files lets the user or teacher save scores from Table Talk, Mystery Number and Scoreboard.



**Product Name:** Maze

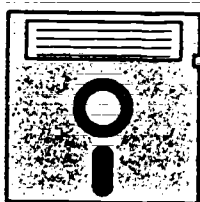
**Vendor:** Computers to Help People, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Maze is a recreation and training program that uses color, graphics, and sound to guide the user through a maze. Mazes may be designed by the user, or a teacher or parent. The user guides the cursor through the maze by pressing keys on the keyboard. If a voice synthesizer is used, the words "up," "down," "left," and "right" accompany selections.



**Product Name:** Memory I

**Vendor:** Psychological Software Services, Inc.

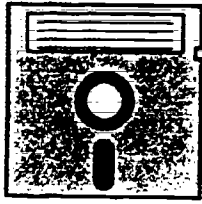
**Computer:** Apple II family, Atari,  
IBM PC family

**Manual Form:** Printed

**Cost:** \$225.00

Memory I is a series of four different types of memory training programs. Spatial memory asks users to learn an escape route from a concentric maze, where a correct guess advances the user and incorrect returns the cursor to the beginning. Verbal Memory (Sequenced Words) presents a series of words and asks the user to select the same words from an array of sixteen words, in the order that they were presented. Auditory Memory presents one or more tones that seem to slide up or down the scale and asks the user to reproduce the series of up/down combinations. Visual/Spatial Memory presents a symbol in a 5x4 matrix, then asks the user to recognize what symbol was seen from an array of ten symbols, and where on a blank array the symbol was presented.

Program requires joystick to operate.



**Product Name:** Memory II

**Vendor:** Psychological Software Services, Inc.

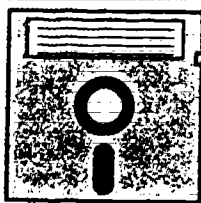
**Computer:** Apple II family, Atari,  
IBM PC family

**Manual Form:** Printed

**Cost:** \$300.00

Memory II is a series of different memory training programs, an advanced version of Memory I (see entry). Spatial Memory (Objects/Locations) presents an array of 30 objects with a frame briefly around one or two objects; user must recall and select framed item. Visual Memory (Sequenced/Spatial) asks the user to recall which of twelve squares changed colors, first a single square change then a sequence of color changes. Recognition Recall 1,2,3 presents 19 objects for a clinician-set period of time (from a few seconds to over a minute), then asks the user to recall which pictures were seen from a list of 90 words. Verbal Memory (Categorizing) asks the user to categorize 20 words into one of four groups (such as foods, animals, colors), then after completion of task to recall as many of the twenty words as possible.

Programs require use of either keyboard or joystick.



**Product Name:** Memory Patterns

**Vendor:** Brain-Link Software

**Computer:** Apple II family

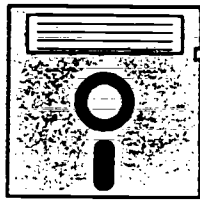
**Manual Form:** Printed

**Cost:** \$79.00

Memory Patterns is a memory evaluation and practice program for visual memory. The program presents a pattern of colored squares on a grid and the user must subsequently recreate the pattern using a joystick. A modification of this program, called Memory Sequences, is similar but develops the pattern one colored square at a time. Treatment parameters are user-specifiable.

Memory Patterns requires a joystick and a color monitor for operation. Contact manufacturer for details.





**Product Name:** Micro Speech Lab

**Vendor:** Software Research Corporation

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$1,450.00

Micro Speech Lab is a hardware/software package designed for the capture and in-depth analysis of speech or other signals on the IBM-PC and compatibles. Signal input, waveform display, audio output, analysis and file management can be performed. The program allows the user to splice a sound sample in both visual and auditory mode and to condition the signal segment to required specifications. The following parameters are user secifiable: sampling rate of up to 20,000 per second, or 25,000 with an IBM AT; segment duration of up to 64,000 sample points; a quantizing rate of 8- or 10- bit; and simultaneous pitch and amplitude display.

Each Micro Speech Lab package contains a data acquisition board, hardware, software, microphones, headphones, and documentation. Additional modules are available for use with the package.



**Product Name:** Micro-Interpreter I  
(Fingerspeller)

**Vendor:** Microtech Consulting Company

**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$49.95

Micro-Interpreter I (Fingerspeller) is a program for teaching and drilling ASL fingerspelling. The program displays a line graphic of a hand posed as a particular ASL letter. Words can be entered (up to 30 characters long) and then spelled back at variable speed. Signs and series of signs can appear captioned or uncaptioned. The user can also test his own comprehension of fingerspelling.

A graphics adapter is required to run the IBM-PC version of Micro-Interpreter I.



**Product Name:** Micro-Interpreter II (CAV-ASL)

**Vendor:** Microtech Consulting Company

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$695.00

Micro-Interpreter II (CAV-ASL: A Computerized Animated Vocabulary of the American Sign Language) is a program that displays words in ASL as computer animation on the screen. A line drawing of a person goes through the gestures of an ASL word when that word is entered by the user. Motion of the animated figure can be sped up, slowed down, or frozen. English captions can be turned on or off. A series of words can be stored and then read back in sequence as signs. The signs are grouped categorically on 15 diskettes.

Two disk drives and 48K of memory are required to run Micro-Interpreter II.



**Product Name:** Minimal Contrast Therapy

**Vendor:** Parrot Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$59.50

Minimal Contrast Therapy is a treatment program for children with unintelligible speech. The user selects three phonological processes which contribute to a child's unintelligible speech. A series of minimal pairs are displayed on the screen in picture form. The child is then instructed to play a game in which he must move the target word into a box on the left side of the screen. He is informed that the picture will only move if he says the target word correctly.

Correct and incorrect responses are recorded by the computer and displayed in graphic form characteristic of a multiple-baseline design. Records of up to 12 clients may be kept on the disk at one time. Program was recently revised to include improved graphics. Users can send in old copies of program with \$15.00 to receive a new copy.



**Product Name:** Mix 'N Match

**Vendor:** Marble Systems

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Mix 'N Match is a program designed to teach identification of objects by size, shape, and color. Sorting Fun teaches classification of objects by shape and color; Count the Shapes teaches identification by shape, color, and size; Match the Shapes teaches relationships between objects; and What Comes Next teaches patterns in a sequence. All four lessons have the options of single switch input and synthesized voice reinforcement.

A color monitor is required to run Mix 'N Match. An Echo II speech synthesizer is required for the voice output option.



**Product Name:** Morse Code & Scanning Practice Programs

**Vendor:** Washington Research Foundation

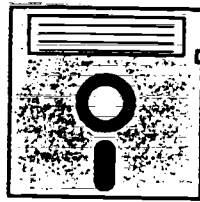
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Morse Code & Scanning Practice Programs provide a person learning to use a single or dual switch with practice in a variety of scanning and Morse code tasks. Morse code practice includes copying and spelling words ("M.C. Double-Talk"), shooting down requested words and letters ("M.C. Dragon"), knocking down the alphabet in any order ("M.C. Alphabounce"), and selecting numbers ("M.C. Tic-Tac-Toe"). Practice in several scanning techniques includes printing large text on the screen or on an optional printer. Row/column and row/column step scanning practice ("Musical Scan"), and group/item selection from a single line array at the bottom of the screen ("Scan Talk") are also provided.

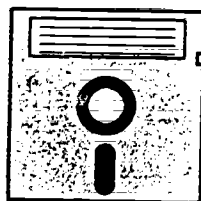
One or two microswitches must be substituted for or wired in parallel with the game buttons through the game I/O port.



**Product Name:** Morse Code Drills  
**Vendor:** Personally Developed Software  
**Computer:** IBM PC family  
**Manual Form:** Printed  
**Cost:** \$14.95

Morse Code Drills is a drill and practice program designed to teach the dot and dash patterns for each letter of Morse code. The program presents Morse code patterns both visually and auditorally, with variable pitch and speed. Users can pause at any time in the program by pressing a designated key.

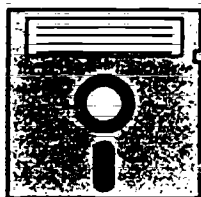
The program operates on IBM computers and requires DOS 1.0, 2.0, 2.1, 3.0, or 3.1.



**Product Name:** Mouse Math  
**Vendor:** Ballard & Tighe, Inc.  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$30.00

Mouse Math uses graphic mice marching in and out to provide motivation and abstract counting during various math activities. Skills covered include addition by 1,2,3,4,5; 1 to 5, and 1 to 9; and subtracting by 1,2,3,4,5; 1 to 5, and 1 to 9. Math facts are presented orally by the speech synthesizer. Menus are provided for selection of basic category and level of difficulty. If the student answers eight of the last ten questions in a level correctly, the program will automatically return the student to the main menu. If the student does not answer the last eight out of ten correctly, the program will continue to drill the student with questions on that level.

Mouse Math is available for the Apple II + and IIe. The Echo + or Echo II Speech Synthesizer is required if the speech output aspect of the program is to be utilized, but the program will run without it.



**Product Name:** Natural Language Processing Program

**Vendor:** Educational Audiology Programs, Inc.

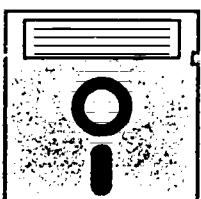
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$159.00

Natural Language Processing Program is a language structure practice program which uses stories and short lessons to train semantic and syntactic rules within a natural language context. The program presents stories in dialogue form, followed by lessons which require supplying missing words in sentences based on the story text. The lessons give a sentence with a blank and choices of words for the blank, and the user has three options of type of response required: recognition mode which is operated only by a few keys, recall mode which uses keyboard to type in word responses, and recognition mode moving arrow which allows responses by pressing only the space bar.

The NLP Program includes written text of the stories and lessons as well as the computer program and manual. The program includes capabilities for teachers to develop their own stories and lessons.



**Product Name:** Ollie Series

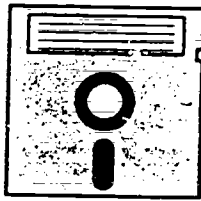
**Vendor:** C.C. Publications, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95each, \$429.95set

The Ollie Series emphasizes basic skills and concepts. Students learn to discriminate objects, shapes, letters and short words; to match upper and lower case letters; to match beginning and ending letters; to remember objects, letters and words; to remember sequences presented visually; to distinguish between common reversals; to match beginning sounds and letters; and to recognize numerals and match them to sets of objects. Two of the Ollie programs, Ollie Hears and Remembers! and Ollie Hears and Sequences! teach and test auditory skills, and require an Echo + or Cricket speech synthesizer. Only the two arrow keys and the return key are used. Animated graphics present the tasks. After practice, students are tested. Immediate feedback, adjustable criteria, and a reward routine are a part of the programs. Related worksheets are included with the software. The \$429.95 price is for a set of nine programs. It does not include Ollie Hears & Remembers and Sequences! These two programs are \$49.95 each.



**Product Name:** One Handed Typing

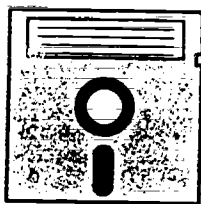
**Vendor:** Jones, Matthew

**Computer:** Any CP/M Computer,  
Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$29.95

One Handed Typing is a program developed to teach a 16 year old student with cerebral palsy to type with one hand. It is described as easy to use, and as appropriate for students from second grade through adults. It is available for the Apple IIe and IIc, CP/M (with MBASIC), and MS-DOS computers. A single copy is \$29.95, or a copy license that allows the user to make multiple copies, e.g., for use throughout a school district, is available for \$99.95.



**Product Name:** Paint With Words

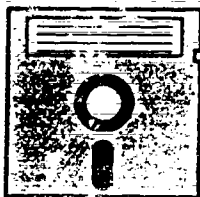
**Vendor:** MECC (Minnesota Educational  
Computing Consortium)

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.00

Paint With Words allows the student to create pictures by choosing words printed at the bottom of the screen. If the Ufonic Voice System is used (see separate entry), natural-sounding voice will be added to assist in word recognition. The pictures which have been created can be saved and printed.



**Product Name:** PAVE: Perceptual Accuracy/Visual Efficiency Training

**Vendor:** Instructional/Communications Technology, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$80.00

PAVE: Perceptual Accuracy/Visual Efficiency Training is a perceptual training program which is designed to build visual/functional and perceptual skills which form the basis for fluent silent reading. The program has two steps: Visual Efficiency (scanning) and Perceptual Accuracy (flash) exercises. For Visual Efficiency, a target number or letter is presented and three numbers or letters per line scan randomly from left to right at prescribed rates of 10-120 lines per minute. Users must either press space bar each time target appears or count and enter total number of appearances. For Perceptual Accuracy, one to twelve numbers or letters are flashed at preassigned exposure speeds. Depending on skill level and choice of exposure mode, the user either types in target item from memory or a choice of items. Number of flashes per exposure decreases with increasing difficulty level. Performance data can be collected and stored by program.

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**Product Name:** PC Morse Code

**Vendor:** Personally Developed Software

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$19.95

PC Morse Code is a training program specially designed to teach Morse code. The program breaks down the alphabet, numbers, and special symbols into small groups. These groups can be learned interactively with the computer and practiced individually, at variable transmission speed from 5 to 60 words per minute. Online dictionary contains more than 6,000 words and Morse code translations. Morse code units and special symbols are presented auditorally as well as on the keyboard.

The program requires DOS 2.0, 2.1, 3.0, or 3.1.



**Product Name:** PC-Fingers

**Vendor:** Midwest Health Programs, Inc.

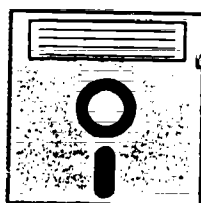
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$39.95

PC-Fingers is a program for teaching and drilling ASL fingerspelling. Each American Manual Alphabet character appears on the screen as a line graphic of a hand posed for that letter. Various levels of instructional difficulty are available with the program, and the advanced level (which displays whole words and phrases) can be run at speeds from 1.3 to 11.8 signs per second.

An IBM color graphics adapter card and a color monitor are required to use PC-Fingers.



**Product Name:** Phonics, Text, and Graphics

**Vendor:** Washington Research Foundation

**Computer:** Apple II family

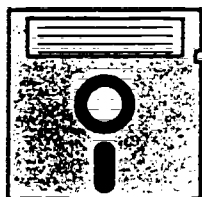
**Manual Form:** Printed

**Cost:** \$25.00

Phonics, Text, and Graphics is a set of programs designed to be operated by keyboard input, or by any of the input techniques on the Special Inputs Disk (see entry, Washington Research Foundation). With the "Text Editor" and "Drawing" programs, the user may write text or draw pictures, save completed work, and print the result. A teacher may use the "Worksheet Writer" to enter pages from the student's own phonics workbook. The student then may use "Phonics Editor" to call up and complete worksheets. Sample pages are included on the disk, and a written tutorial is included to demonstrate the use of "Phonics Editor."

For use with any of the Special Inputs, one or two microswitches must be substituted for, or wired in parallel with the Apple game buttons through the game I/O port.





**Product Name:** Phonological Process Tutor

**Vendor:** Parrot Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$69.50

This program was designed to provide practice to individuals interested in learning how to find phonological processes in unintelligible speech. It assumes that the user is familiar with the concept of phonological processes and wants practice identifying processes before attempting to do a process analysis for a real speech sample. There are four graded levels of practice. The program contains 400 different problems presented in random sequence. Words are presented using large-type International Phonetic Alphabet characters. User responses to the first three levels require entry of two letter process abbreviations from a pool of 18 different processes. If the user forgets appropriate keys during a session, a picture of the keyboard can be displayed. Process definitions and correct examples are given when the user makes incorrect responses. An evaluation of performance is supplied at the end of each lesson.

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**Product Name:** Pictures Programs: I, II and III

**Vendor:** Parrot Software

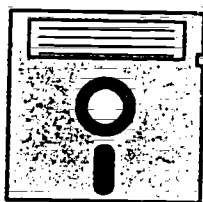
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$59.50 each

The three Pictures Programs are: I- Function Pictures, II-Association Pictures, and III- Rhyming Pictures. Each program has two levels of operation. The first level teaches the name of pictures displayed on the screen. The second level teaches the function, an association or a rhyme of the pictures displayed. In each program six color pictures are displayed at a time.

Responses are made by pressing the space bar and the Return key, or by a single switch plugged into the game port. The programs may be purchased individually (\$59.50) or as a set (\$159.50).



**Product Name:** PII - Personalized Information for Independence

**Vendor:** UNITED Educational Services, Inc.

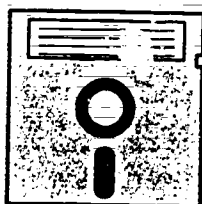
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95

PII - Personal Information for Independence is a utility and training program to help students learn individualized personal information that is important in daily living. PII presents directives such as "Type in your name" and auditory and visual reinforcers are presented when initial response is accurate; if inaccurate, directive can be repeated up to three times. Program includes a total of 30 possible directives, and teacher has the option to omit or limit the number of various directives presented. Information may be presented in three modes: continuous visual cue, visual cue that remains for 3-9 seconds, and no visual cue. PII also collects progress data for each individual, including speed, accuracy, number of correct responses and in what mode.

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**Product Name:** Point and Read

**Vendor:** Micro-Ed

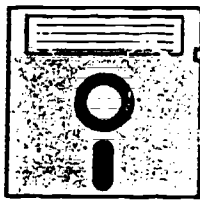
**Computer:** Commodore 64, Commodore Amiga

**Manual Form:** Printed

**Cost:** \$29.95 - \$99.95 each

Point and Read is a beginning reading training program that teaches word attack skills usually taught in kindergarten to third grade. The program teaches more than 1,000 words, primarily by associating certain letter arrangements with their corresponding patterns of sound. For words where sound and letter correspondence are irregular, those irregularly spelled words are taught as sight words. A light pen is used throughout the instructional phase of every program with the Commodore 64, and voice and mouse is used for instruction with the Commodore Amiga. In the program, the user proceeds to a more difficult set of exercises only when he or she has achieved perfect performance on word attack problems.

Eight program sets total are available, in four packages of varying prices; package one and two, with three disks, are \$74.95 each, and packages three and four, with four disks, are \$99.95 each. A light pen is necessary for operation with the Commodore 64. Nothing extra is necessary to operate program with the Amiga, sold as a single disk for \$29.95. Contact manufacturer for details.



**Product Name:** Point to Pictures Development Kit

**Vendor:** R.J. Cooper & Associates

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$99.95

Point to Pictures Development Kit is a software package that allows the user to offer graphics and written content to create matching and communications tests. The user makes selections from a PowerPad (see entry, Dunamis, Inc.) based on target pictures or letters placed on the screen by the program. Point to Pictures monitors, reinforces and/or corrects the user's pointing response. Reinforcement is via a speech synthesizer or digitizer. Point to Pictures may also be used for simple voice communication with the addition of a voice synthesizer.

A PowerPad and Echo speech synthesizer (extra) are required to use Point to Pictures Development Kit; a color monitor is recommended but not required.



**Product Name:** Point to Pictures Discrimination Kit

**Vendor:** R.J. Cooper & Associates

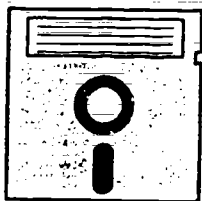
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$199.95

The Point to Pictures Discrimination Kit is a program that allows low functioning individuals to control battery operated toys with a PowerPad and a computer. When the user touches a defined location on the PowerPad, a graphic image appears on the monitor, a phrase is spoken by a speech synthesizer, and the toy stays on as long as pressure is maintained.

A PowerPad is required to operate the Point to Pictures Discrimination Kit (extra; see entry, Dunamis, Inc.). The kit comes with the software, two switch modified battery operated toys, an interface box (required for hooking the toys to the computer), two six foot cables for the toys, and a flat-pad switch.



**Product Name:** Point to Pictures Lesson Plan Masters

**Vendor:** R.J. Cooper & Associates

**Computer:** Apple II+, Apple IIe

**Manual Form:** Printed

**Cost:** \$49.95 each

Point to Pictures Lesson Plan Masters are a set of pre-authored lesson plan disks for the Point to Pictures Development Kit and the Point to Pictures Discrimination Kit (see entries, R.J. Cooper & Associates). Point to Pictures Lesson Plan Masters provide lessons that give female speech, and provide picture overlays for the PowerPad.

Five lesson plans are available: Letters, Numbers, Colors, Shapes, and Reinforceable Objects. A PowerPad (extra) is required to use the Point to Pictures Lesson Plan Masters.



**Product Name:** PowerPad Programming Kit

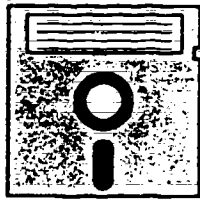
**Vendor:** Dunamis, Inc.

**Computer:** Apple II family, Atari 400, Atari 800, Commodore 64, VIC 20

**Manual Form:** Printed

**Cost:** \$24.95

This is a design tool that enables teachers, developers and parents who have a working knowledge of BASIC programming language to develop customized software for use with the PowerPad. The manual explains in detail how the PowerPad talks to the computer and provides information about the inner workings of the Pad. Five sample programs are included. A button-mapper lets the programmer lay out keys to the size requirements of the student.



**Product Name:** Preposition Recognition

**Vendor:** Brain-Link Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$129.00

Preposition Recognition is an auditory comprehension practice program for prepositions. Four digits are displayed in different locations around a common object on the computer screen, and the user is asked via the speech digitizer to find a certain location such as "behind the dog". The program also collects and analyzes client performance data. A joystick, keyboard, or Koala pad can be used for input.

Preposition Recognition requires a dual disk drive and a Mountain Computer Supertalker SD speech digitizer (see entry).



**Product Name:** Primer 83

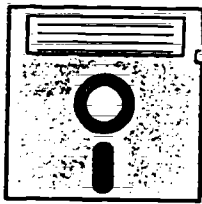
**Vendor:** Dynacomp, Inc.

**Computer:** Apple II family

**Manual Form:** Audiotape, Printed

**Cost:** \$99.95

Primer 83 is a user oriented graphics program for individuals with dyslexia and related disorders. Primer 83 allows diagnosis of specific difficulties in letter recognition; alteration of character fonts and presentation time to improve discrimination; instantaneous recognition training for common words and sentence structures; and synthesized music with cadence-synchronized visual presentation of lyrics, including a song editor. Primer 83 enhances user motivation through rapid feedback and adaptive drills.



**Product Name:** Problem Solving

**Vendor:** Psychological Software Services, Inc.

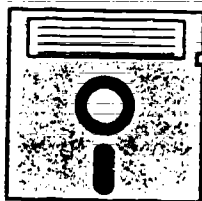
**Computer:** Apple II family, Atari

**Manual Form:** Printed

**Cost:** \$300.00

Problem Solving is a series of four types of programs that train aspects of problem solving. Number Manipulations I,II,III includes a visual serial addition task where the user must add each of a series of numbers to its predecessor in the series to get a series of totals, a sequencing task where the user reorders a string of digits by moving portions of the string toward the left until the string is in ascending sequence, and a single digit addition task which requires that up to three series be added simultaneously. Checker Exchange asks the user to exchange the positions of the two sets on a checkerboard using correct checker moves but no jumps. Knight's Challenge asks the user to compete with the computer to move a single knight chess piece across the board to the other side. Maze Puzzle I,II randomly generates a maze with only one solution for the user to follow; computer tracks wrong turnings and delays. Higher levels of difficulty are possible within most programs.

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**Product Name:** Processing Power Program

**Vendor:** Instructional/Communications Technology, Inc.

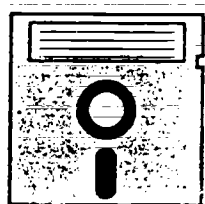
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$180.00 each set

Processing Power Program is a perceptual training program that is designed to reduce perceptual confusion and improve reading rate and comprehension in silent and oral reading. For silent reading, the program first reviews key vocabulary, then presents stationary training, where individual words of a text are scanned quickly up the screen so that user does not have to move eyes to read text. This is followed by presentation of five words per line of text at variable rates or scan pattern, and a comprehension check for reading accuracy. For oral reading, words for users to read aloud are presented first in widely spaced units, increasing from one word per line to five words per line in standard text format.

Processing Power Program is available in different reading levels or topics, tailored to different levels of elementary or mature students.



**Product Name:** Purposeful Patterns, Purposeful Symbols, What Belongs?

**Vendor:** Greentree Group, The

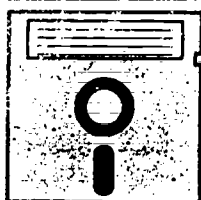
**Computer:** Apple II family, Commodore 64, IBM PC family

**Manual Form:** Printed

**Cost:** \$50.00 - \$200.00 each

Purposeful Patterns is a multi-level program designed for retraining visual-spatial perception and memory skills. Nine different tasks, using combinations of color, shape and design, are presented. It is available for the Apple II series, IBM-PC and Commodore 64, and costs \$200.00. Purposeful Symbols is similar in format to Purposeful Patterns, but consists of matching tasks involving letters and numbers. It is available for the Apple II series, and costs \$50.00. What Belongs? is a program designed for retraining memory and logical reasoning skills. Three programs consist of multiple choice, fill in the blank and fill in the missing letter. What Belongs? is available for the Apple II series and the IBM-PC, and soon for the Commodore 64.

Purposeful Symbols and What Belongs? both sell for \$50.00 each; Purposeful Patterns sells for \$200.00. Demo disks can be ordered for \$10.00 for each program plus \$2.50 shipping and handling. The demo may be returned within 30 days with refund or apply towards purchase.



**Product Name:** Quiet Duck Learning Series

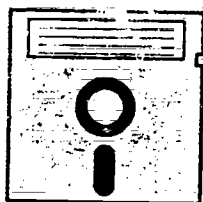
**Vendor:** Computer Talk

**Computer:** Apple II family, IBM PC family, TRS-80 Color, TRS-80 Model III, TRS-80 Model IV, Tandy 2000

**Manual Form:** Printed

**Cost:** \$132.80/set (see text)

The Quiet Duck Learning Series is a package of reading and spelling programs specifically designed with the Learning Disabled student in mind. It provides a clear, uncluttered presentation and easy-to-use format appropriate for easily distracted individuals. The Series can be used as a diagnostic tool and for pre- and post-testing of specific lessons. Responses are scored and errors filed for teacher review and analysis of students' strengths and weaknesses. The teacher can choose to use pre-packaged word lists or can develop individualized lists to match the learning objectives of each student. A pace-setting option, allows information to be presented to each student as rapidly or as slowly as his needs demand. Quiet Duck promotes consistent left-to-right progression in reading. Characters appear on the screen in sequence and force the student's eyes to scan with proper directionality. Additionally, the student has an opportunity to practice keyboard operation while learning to read and spell. It is available on disks and cassettes. An IBM version will be available soon.



**Product Name:** Rabbit Scanner

**Vendor:** Handicapped Children's Computer  
Cooperative Project

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

The Rabbit Scanner is a scanning training program that uses a graphic of a rabbit hopping across the screen. The rabbit hops across the screen in a single horizontal line, and a carrot is placed in one of five positions on the screen. When the rabbit reaches the carrot, the child triggers a game paddle, adapted switch (adapter required), or the space bar. The program records performance.



**Product Name:** Race the Clock

**Vendor:** Methods & Solutions, Inc.

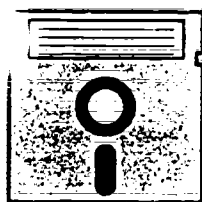
**Computer:** Apple II family, IBM PC family,  
IBM PC jr

**Manual Form:** Printed

**Cost:** \$39.99

Race the Clock is a learning game designed after the popular "Concentration" game. The user tries to match pictures with pictures, pictures with words, or words with words. Each box in the array presented on the screen can display a verb or an animated figure acting out the verb's action. Selections may be made using the keyboard, a mouse, or a joystick (not included). Race the Clock is equipped with a "challenge upgrade option," which allows various skill levels involved to be adjusted, independent of each other.





**Product Name:** Rate Drill in Articulation, Language and Fluency

**Vendor:** UNITED Educational Services, Inc

**Computer:** Apple II family

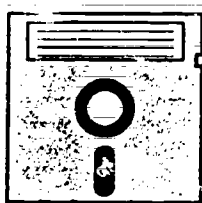
**Manual Form:** Printed

**Cost:** \$99.00 - \$129.00

Rate Drill in Articulation, Language, and Fluency (RALF) is a training program for practice in rate of speech. Each part (Articulation, Language, or Fluency) allows the user to perform drills on either sentence or paragraph units in two different modes: determining actual word-per-minute (WPM) rates in practice, or pre-selecting WPM rates for each stimulus. A feature of the program called Inflection allows the user to practice the same sentence or paragraph units, with selected words capitalized for greater emphasis or stress.

In Part I (Articulation), the following phonemes are represented with five different sentence or paragraph combinations each: /l/, /r/, /s/, /z/, /th/ (voiced and unvoiced), /sh/, and /ch/. In Part II (Language), the concepts represented are plurals, prepositions, tensing, possession, and negation. In Part III, five different paragraphs practice various rate drills. A disk is available separately for each part, or as a package: price for the package alone is \$99.00, or for package plus an editor which allows the user to program additional materials, \$129.00.

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**Product Name:** Reading Around Words Program

**Vendor:** Instructional/Communications Technology, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$150.00 each set

Reading Around Words Program is a vocabulary training program designed to expand word knowledge through structured context analysis strategies and multiple exposures to words. Each level of the program presents 20 lessons that introduce 12 words per lesson. For each lesson, a context sentence with a choice of items to complete the sentence is presented. Next, a paragraph including the target word and clues to meaning are presented, followed by a multiple choice question to test comprehension. If user misses the item, the same paragraph with underlined clues will appear, followed by a clarification paragraph if the item is still missed. Lastly, the context sentence is presented and user spells missing target word.

Nine different sets of 20 lessons are available, for users at reading levels from grades 4 to 12.



**Product Name:** Reading Recognition

**Vendor:** Brain-Link Software

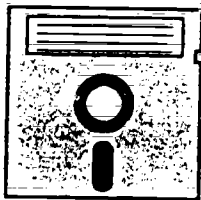
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.00

Reading Recognition is a program designed to teach single word recognition in a format which allows response input either through keyboard, joystick, or Koala Pad (all extra). The task requires the student to match a stimulus word which is in the center of the screen with one of four words in the periphery. The program can be used to train the comprehension of noun-verb, category-member, opposite, similarity, and other word relationships. The program also offers a stimulus delay mode so that it can be used to enhance short term memory for the stimuli. Control of lesson parameters, adding of new items with program editor, and data collection and analysis capability is provided in program.

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**Product Name:** Remedial Secondary or Adult Education Programs

**Vendor:** Hartley Courseware, Inc.

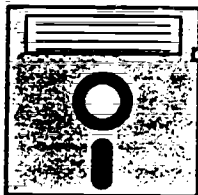
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$485.00

Remedial Secondary or Adult Education Programs are a series of programs designed for training language and other remedial skills with older students. Programs are described as having large, easy-to-read letters, uncluttered screens, consistent entry procedures and carefully sequenced lessons. Many of the programs can be modified to allow the teacher to tailor content to individual differences. The programs in this set are for beginning level readers, but do not have elementary graphics or stories. The programs include: Word Families II, Opposites, Vocabulary-Controlled, Money!Money!, Homonyms, Capitalization, Vowels, Create Spell-It, and Who-What-Where-When-Why. A Cassette Control Device is also included in the package. This electronic device allows the computer to activate a standard cassette tape recorder. Lesson vocabulary, directions, definitions, or any oral presentation can be recorded. The tape will then be synchronized directly with the presentation on the computer. Programs in the set which can utilize the CCD are Vowels and Create-Spell-It. Contact the manufacturer for other programs which use the CCD.

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**Product Name:** Representational Play

**Vendor:** PEAL Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$120.00

Representational Play is a program designed to teach mentally or physically handicapped students to communicate by selecting pictures of desired objects or activities. Color line drawings (included) are assembled as overlays for a membrane keyboard. When the student presses a picture on the membrane keyboard, an identical graphic appears on the screen and a speech synthesizer speaks the corresponding word. Representational Play is meant for students with a developmental age of twenty-four months to five years. Representational Play is an advanced version of Exploratory Play (see separate listing) with different play activities and language levels used.

A Muppet Learning Keys membrane keyboard is required for input. An Echo II or Echo+ is required to use Representational Play with an Apple IIe; a Cricket is required for the IIc. Toys corresponding to the picture symbols are available from Peal. (All extra.)

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**Product Name:** SAID: Say as I Do

**Vendor:** Conover Company, The

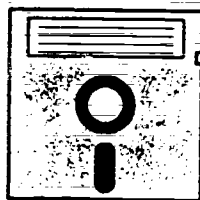
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$129.95

SAID: Say As I Do is a series of four programs to train word recognition and matching skills. The four programs are: Say As I Do, Crane Game, Astrowords, and Student Data Disk. Say As I Do presents one of five target words with a picture, and gradually fades picture cues to train word recognition. Crane Game presents word recognition in a game format where users must use a joystick to match a target word to a selection word which scrolls across the bottom of the screen. Astrowords uses a space game format to present a target word with a missing letter, and the user must select the proper letter to fill in the blank. Student data stores, recalls, and prints user performance data from the other programs.

System requires an Echo II Speech Synthesizer, joystick, and can be used with optional printer or color monitor: contact manufacturer for details.



**Product Name:** Sarah and Her Friends

**Vendor:** Rhiannon Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** Contact manufacturer

Sarah and her Friends is an animated graphic adventure for prereaders designed to teach cause and effect. The program uses the Escape, Return and Space Bar keys only, and runs on any of the Apple II computers.

Contact the manufacturer for more information about the program such as details of operation, intended users, and price.



**Product Name:** Scan & Speak

**Vendor:** Communication Enhancement Clinic

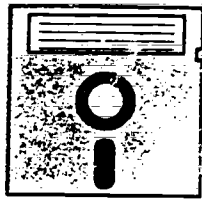
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$75.00

Scan & Speak is a scanning communication program controlled by a joystick button or a switch adapted to perform the same function. The user may choose between large or small text in the scanning cells, and stored messages may be spoken when a cell is selected.

Output may be spoken through a voice synthesizer or printed. Either the Votrax Type 'N Talk, Votrax Personal Speech System, or an Echo + or Echo II speech synthesizer can be used, with appropriate program version. Contact the manufacturer for details.



**Product Name:** Sight Word Spelling

**Vendor:** Handicapped Children's Computer Cooperative Project

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

Sight Word Spelling is a spelling practice program for common words and number sequences. The program presents teacher-generated lists of ten items each, which can include words of up to 6 letters or numbers of up to 3 digits. The program vocalizes each letter or number of the target item for the user to duplicate with the keyboard. Length of display, time, volume, and pitch of voice are user-specifiable. Program is intended for students at a first or second grade level of spelling.

Program requires an Echo II speech synthesizer for operation.



**Product Name:** SimpleCom I: Yes/No Communication

**Vendor:** Dunamis, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95

SimpleCom I: Yes/No Communication is a communication output program for expressing simple daily living needs and training early communication skills. The program utilizes training sequences that help the user in yes/no differentiation, and are designed to facilitate cause-effect association. The teacher may modify prompts, reinforcements, and speech output of synthesizer.

The program operates with a PowerPad (see entry) and an Echo+ or Echo II speech synthesizer, both extra; contact manufacturer for details.



**Product Name:** SimpleCom II: Needs/Wants Communication

**Vendor:** Dunamis, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95

SimpleCom II: Needs/Wants Communication is a voice output program for communication of basic needs and wants. The program contains a list of 10 basic needs including go to bathroom, drink, eat, go outside, help, hurt, music, play, sleep, and watch TV. These needs are displayed with large graphic symbols, and user activates voice output by touching PowerPad. Additional needs or wants can be added by drawing other symbols with the MicroIllustrator program (see separate entry).

A PowerPad (see entry) and Echo+ or Echo II speech synthesizer are required for operation (extra). Manufacturer can also custom design the needs menu at additional cost; contact manufacturer for details.



**Product Name:** Smart Shaper

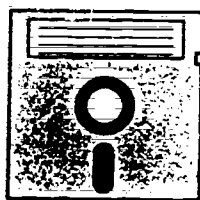
**Vendor:** Psychological Software Services, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Smart Shaper consists of eight programs designed to provide basic low level exercises in matching, shape recognition, concepts of same and different, and counting. Keyboard input is used to operate programs. Contact manufacturer for more detailed information on types of programs and applications.



**Product Name:** Soft Tools '83, '84, '85

**Vendor:** Cognitive Rehabilitation

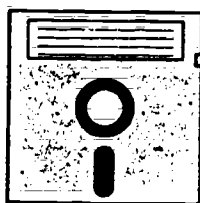
**Computer:** Apple II family, Atari,  
Commodore 64, IBM PC family

**Manual Form:** Printed

**Cost:** \$35.00 each

The Soft Tools programs are menu driven disk versions of computer programs published in each issue of Cognitive Rehabilitation, a bimonthly publication. Soft Tools '83 is available for Apple and Atari computers, and includes titles such as Anticipation, Colormatch, Countdown, Drawit, Driver, Peek, Visual Search, and others. Soft Tools '84 is available for Apple, Atari and IBM computers, and includes Baker's Dozen, City Map, Descript Stats, Intercept, Sequential, and others. Soft Tools '85 is available for all computers listed above plus the Commodore computer, and includes Alphabet, Alphabetizing, Circlematch, Digit/Symbol, Dot-to-Dot, Guess Which, Patterns and Sequences, Seq Memory, and others.

Contact Cognitive Rehabilitation for further information about Soft Tools programs.



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**Product Name:** Software for Visually Impaired  
Children

**Vendor:** Sensory Aids Foundation

**Computer:** Apple IIc, Apple IIe

**Manual Form:** Braille/Tactile, Printed

**Cost:** \$50.00

This software is a set of four programs using synthesized speech output. One program teaches typing; another is a spelling program that allows the student to compile a list of 20 spelling words and to practice spelling them. The third program (Echotext) allows the instructor to create sets of multiple choice questions for the student to answer, and the fourth program (Create) allows the instructor to generate lessons. The programs are designed for visually impaired children in grades three through six.

All four programs come on one disk. An Echo II speech synthesizer is required to run the programs.



**Product Name:** Sound Ideas

**Vendor:** Houghton Mifflin

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** Contact manufacturer

Sound Ideas is an early reading training program designed to help users decode appropriate sounds from printed words. Three types of programs are available for either consonants or vowels, and each program contains several levels of difficulty. The Sound Ideas, Consonants program provides seven disks covering 17 consonants, th, sh, and ch sounds, and a consonant review. Sound Ideas, Vowels includes five disks covering long and short forms of the vowels and the "y" sound. Sound Ideas Word Attack covers more complex phonic constructions, with consonant clusters, vowel and consonant digraphs, and ending consonants.

Program requires an Echo + speech synthesizer for voice output. Price of \$522.00 includes all three programs plus an Echo + board. Programs are also sold separately, at different prices: Vowels (\$156.00), Consonants (\$195.00), and Word Attack (\$171.00). Contact manufacturer for details.

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**Product Name:** Sound Match

**Vendor:** Schneider Communication Unit

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Sound Match is a program that presents the user with a variety of sounds or noises requiring gross levels of auditory discrimination and matching. The user makes selections with a single switch. The matching activities are applicable for visually impaired or physically disabled youngsters who are being introduced to the computer for the first time and who require training in auditory attention and single switch skills.

A single switch interface and speech synthesizer for the computer are required.





**Product Name:** Special Education (Elementary):  
Paks for Special Needs

**Vendor:** Hartley Courseware, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$533.40

This is a set of Hartley programs that have been developed for children who have learning problems. The programs use large easy-to-read letters, uncluttered screens, consistent entry procedures and carefully sequenced lessons. Most of the programs can be modified to allow the teacher to tailor content to individual differences.

The Special Education (Elementary) pak contains programs that have been used with children with mental ages of 3.5 to 8. These include Colors and Shapes, Pattern and Sequence, Letter Recognition, Little Riddles, Number Words Level 1, Size and Logic, Sense and Nonsense, Vowels, Word Families, Scuffy and Friends, and Vocabulary Dolch with CCD. The CCD (Cassette Control Device) allows the computer to activate a standard cassette tape recorder. Vocabulary words, directions, definitions, or any oral presentation can be recorded, and then will be synchronized directly with the presentation on the computer. Some of the programs from the Early Discoveries Series use only the Space Bar and Return keys to operate.

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**Product Name:** Special Needs Volume 1 -  
Spelling

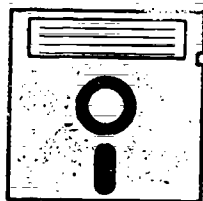
**Vendor:** MECC (Minnesota Educational  
Computing Consortium)

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$44.00

Special Needs Volume 1 - Spelling is a spelling tutorial program for physically handicapped students. Twenty drills are included in the package. Students may practice spelling individually or in teams. The game paddies or any key on the keyboard may be used to make selections from the screen. Special Needs Volume 1 is designed for grades two through six.



**Product Name:** Special Needs Volume 2 - Simulations & Drills

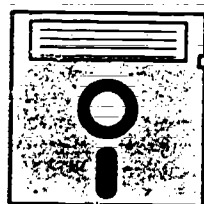
**Vendor:** MECC (Minnesota Educational Computing Consortium)

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$44.00

Special Needs Volume 2 - Simulations & Drills consists of five programs providing practice in a number of areas. "Arithmetic Practice" drills the student in the four basic arithmetic operations; "Change" provides practice in making change; "Odell Woods" and "Odell Lake" simulate a food web; and "Wrong Note" provides practice in comparing musical pitch patterns. Special Needs Volume 2 is designed for individual student use, but may be used by several students as a team. Selections may be made with the game paddles or on the keyboard. Special Needs Volume 2 is designed for grades 2 through 6.



**Product Name:** Special Skill Builders I & II

**Vendor:** Compu-Tations, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$34.95 each

Special Skill Builders I is a set of learning and drill programs covering counting, color and shape recognition, and a number Drill. Special Skill Builders II is a continuation of Special Skill Builders I which includes four pre-reading training programs. Alpha Drill requires the user to indicate when a randomly displayed lower case character matches an upper case letter at the top of the screen. Alphabet Line asks the user to fill in a missing letter in a section of the alphabet. Number Line does the same for a missing number in a sequence of numbers. Inside Out asks the user to indicate when various shapes moving about the screen appear inside a rectangle. Program also includes teacher management files, and speed of presentation can be adjusted.

Program uses keyboard and/or game paddle input, and system is password protected.



**Product Name:** SpeechMaster

**Vendor:** SpeechMaster

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$249.95

Speechmaster provides a spectral analysis of the acoustical characteristics of phonemes according to frequency, energy, power, intensity, and duration. It was designed for use in the therapy setting.

Contact the manufacturer for information on the types of displays that can be used for graphic presentation of the spectral analyses, and what types of printers will work.



**Product Name:** Spell-A-Vision

**Vendor:** Cross Educational Software

**Computer:** Apple II family, Commodore 64,  
IBM PC family

**Manual Form:** Printed

**Cost:** \$19.95 each

Spell-A-Vision is a spelling and vocabulary practice program for isolated words and words in sentences. The program is designed for the age range third grade through adult. The user spells the target word in one of two situations; after seeing the word in a list, or by guessing the word from the context of a sentence which uses or defines the word. The program includes eight disks which increase in complexity, for a total of 8000 words. Target words are displayed in large letters on the screen.

Custom spelling lists can be entered by users with a built-in text editor of the Apple and IBM versions of the program. Programs are also available at \$150.00 for a set of 8 disks with student mouse.



**Product Name:** Speller Bee

**Vendor:** First Byte, Inc.

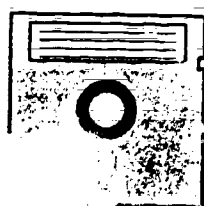
**Computer:** Apple Macintosh, Atari ST family

**Manual Form:** Printed

**Cost:** \$49.95 - \$79.95

Speller Bee is part of the "talking notebook series" from First Byte. Originally designed for preschool through eighth grade, Speller Bee teaches spelling with drill, practice, and games. Users can enter their own vocabulary and spelling lists or use those included with the program. The program allows users to pace themselves, control pronunciation and print out lists. It is menu-driven, using an icon-based format. A manual supplements the onscreen help menus and provides follow-up activities.

The price for the Commodore Amiga is \$59.95 and the Atari ST costs \$49.95.



**Product Name:** Spelling Tutor

**Vendor:** Speech Enterprises

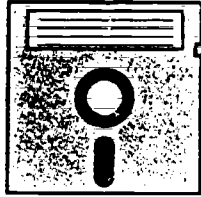
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Spelling Tutor is a spelling practice program with voice output options useful for program operation and testing functions. Program allows creation and testing of spelling lists, with different user options within testing mode to proceed, cue, repeat or list spelling words. An additional feature allows use of the Study Buddy program (extra; see entry) to create vocabulary or word lists for use as spelling words in Spelling Tutor. Voice options of either female or robotic voice are available.

Program requires use of Echo+, Echo II, or Cricket speech synthesizer for voice output.



**Product Name:** Spellist

**Vendor:** Castle Special Computer Services

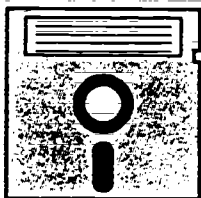
**Computer:** Apple II family IBM PC family,  
IBM PC jr

**Manual Form:** Printed

**Cost:** \$45.00

Spellist is a spelling training program which provides practice at spelling from computer-generated dictation. Program includes options of standard lists of 16 words each or customized word lists, where the program voices the target word, pronounces each letter as the user spells the target, prompts and reinforces responses.

Spellist is suitable for use by multiple students in a classroom; a speech synthesizer is required for the central classroom computer. Contact manufacturer for details.



**Product Name:** Study Buddy

**Vendor:** Speech Enterprises

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Study Buddy is an educational study program that allows the user to enter words followed by a definition or concept description. Up to 50 words may be entered, for presentation in interactive tutorial fashion utilizing voice output. User enters the word then is prompted to type the meaning, with review and repeat options.

An Echo II, Echo+, or Cricket speech synthesizer is required for voice output option.



**Product Name:** Sunny Days

**Vendor:** Developmental Equipment

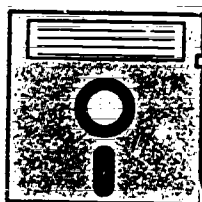
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00

Sunny Days is an instructional program designed to improve the user's word recognition, spelling, and reading skills. Sunny Days allows the teacher to select from a set of over 100 core words or create custom word lists. All programs are presented in game format and may be controlled with a single switch.

A switch interface and a single switch are required to operate Sunny Days.



**Product Name:** Surrounding Patterns (and other programs)

**Vendor:** Strawberry Hill Knowledge Software, Inc.

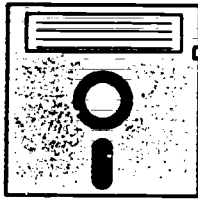
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** See below

SURROUNDING PATTERNS is designed to develop visual perception, sequencing and reasoning skills. The student copies progressively more complex designs composed of simple shapes in different colors. The computer is programmed not to accept a wrong answer. PETER'S GROWING PATTERNS and WHAT'S NEXT develop skills in recognition of a pattern and the ability to generate the next element in the sequence. Different patterns are created using common shapes, objects or lines as building blocks. There are five levels of difficulty. An editor feature is included. HOBOS LUCK is a race game played with four different colored dice appearing on the screen that helps to develop attention, group play, sequencing, and relationship between simple numbers and counting.

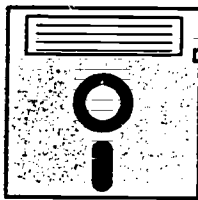
The keyboard or a joystick can be used for input. Only the keys being used are active. A color monitor is necessary to use color features in the sequencing programs. A home version of the software programs costs \$20.00 each; teacher's versions are \$55.00 each.



**Product Name:** Survival Words  
**Vendor:** Conover Company, The  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$139.95

Survival Words is a set of programs designed to teach words for community living, including "exit," "ped xing," "out of order," and "phone." Graphics and verbal reinforcement are incorporated in the learning exercises. Instruction, review, and evaluation functions are included.

Input may be made via the keyboard or with a joystick. An Echo + voice synthesizer is required for verbal reinforcement during use of Survival Words.



**Product Name:** Switchmaster  
**Vendor:** Expert Systems Software, Inc.  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** Comes with Omnibox

Switchmaster is a training program designed to teach the operation of switches through reinforcement. The exact conditions of training programs designed with Switchmaster may be varied to comply with the teacher's goals. Switchmaster allows the teacher to specify the length of a training session, the toy used for reinforcement, and the maximum and minimum duration of reinforcement for each switch closure. Switchmaster records the number of switch closures, the total duration of switch closure, the average duration of switch closure, and the percent of the session time during which the switch was closed.

Switchmaster requires an Omnibox for timing and for interfacing the switches and toys with the Apple.



**Product Name:** Symbol Writer

**Vendor:** Developmental Equipment

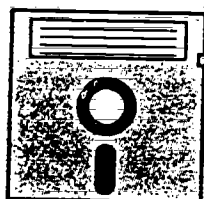
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$95.00

Symbol Writer is a program designed for children learning to use a single switch. The program is designed to help teach cause and effect using a computer. The user scans through groups of symbols presented to insure successful selections. Two and three word sentences are created from the given vocabulary along with animation and voice output.

A switch interface and a single switch, or a PowerPad (see separate entry in this book) are required to operate Symbol Writer.



**Product Name:** TAG: Talking Animated Graphics

**Vendor:** PJ Software

**Computer:** Apple II family

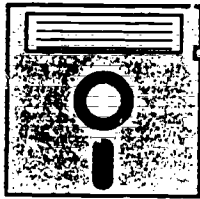
**Manual Form:** Printed

**Cost:** \$50.00

TAG is composed of a number of computer generated pictures which are displayed when selected keys are typed. Alternate input devices which can be used include the Unicorn Expanded Keyboard, and switches. The graphic pictures are designed to be easily recognized everyday objects and activities. Some of the graphics are animated while others are static. Many also have sound effects or music built in. A word or phrase to accompany each graphic can be spoken by an Echo speech synthesizer. Used without the monitor in view, the program can be used in early choice-making activities.

The cost of \$50.00 includes up to 15 pictures. Additional existing pictures can be added for \$5.00 each. New pictures can be developed for \$25.00 - \$50.00 per picture (approximate). Contact manufacturer for details.





**Product Name:** Talk About A Walk

**Vendor:** College-Hill Press

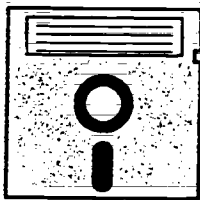
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00

Talk about a Walk is designed to encourage verbal expression and facilitate comprehension of common nouns. Using any key on the keyboard, the student guides an animated dog through a house, moving from room to room and looking through windows, to locate familiar household objects pictured (or named) at the bottom of the screen. Objects are found in logical locations, some in plain view, some hidden (e.g., socks inside a dresser in a bedroom). Finding an object produces both visual and auditory reinforcement.

The rate at which the program runs can be adjusted.



**Product Name:** Talking Apple Literacy Kit

**Vendor:** American Printing House for the Blind (APH)

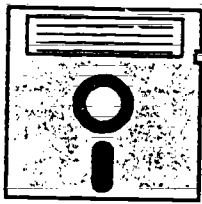
**Computer:** Apple II family

**Manual Form:** Audiotape, Printed

**Cost:** \$43.57 - \$81.68

The Talking Apple Literacy Kit (TALK) is a set of materials designed to provide visually impaired children and adults with their first exposure to microcomputers. Tactile, auditory and visual experiences are used. The Teacher Kit includes 11 computer parts for tactile inspection, a keyboard model with brailled keys, a teacher's manual (in print and on cassette), three braille reference guides, and two pieces of speech-output software.

The software is designed to run on the Apple IIe and requires an Echo II or Echo + speech synthesizer. It includes the following programs: Talking Apple Presents Apple (an introduction to Apple computers), and Talking Writer (a program that contains a typing tutor, three games, and an introductory word processing program. The student's version of TALK is \$43.57; the teacher's is \$81.68.



**Product Name:** Talking Hands

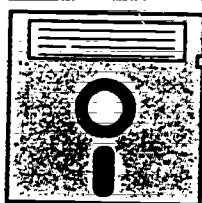
**Vendor:** EBSCO Curriculum Materials

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$44.95

Talking Hands is a sign language drill and practice program for training and communication with the manual alphabet. The program will display handsigns for letters from A to Z as typed. Also, the program will generate five random handsigns on the screen for drill, and display the correct letter if necessary. Up to 36 messages of ten lines in length can be stored on disk for practice, and speed of sign presentation can be user-specified.



**Product Name:** Talking Riddles

**Vendor:** Cross Educational Software

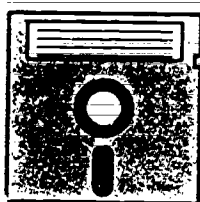
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$24.95

Talking Riddles is a spelling and educational practice program with voice output. One game format presents 120 riddles in hangman format where the user must guess the answer by typing letters. Another format has 91 sayings to be guessed from short spoken clues. A third format contains 112 adjectives and 112 similes, for users to match a noun to fit a simile.

An Echo II speech synthesizer is required for voice output.



**Product Name:** Talking Scanner

**Vendor:** Adaptive Peripherals, Inc.

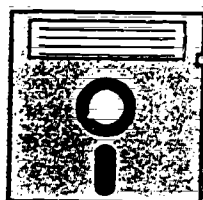
**Computer:** Apple IIe

**Manual Form:** Electronic

**Cost:** Complimentary

The Talking Scanner disk allows the creation and use of customized scanning arrays that talk, useful to single switch users who have difficulty seeing or reading the visual display. The Scanner does not provide a way of making other programs talk if they are not already designed to do so; speech is added only to the scanning choices. A Write program is used to create customized scanning arrays. A Talk program is used to implement the arrays.

Talking Scanner requires an Apple IIe with 128K (i.e. 80 column card with extended memory), Adaptive Firmware Card 2e with a setup disk dated 8/84 or later, Echo speech synthesizer, and single switch. The Scanner should work with all or nearly all programs that do not use the extended 80 column card themselves. Talking Scanner is shipped with new Adaptive Firmware Cards. It may also be copied from anyone who has a copy, or Adaptive Peripherals will send a complimentary copy upon request.



**Product Name:** Talking Text Writer

**Vendor:** Scholastic Software

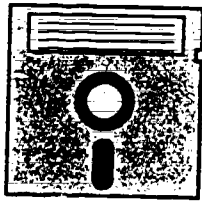
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$149.95 - \$249.95

Talking Text Writer is a word processing program with voice output for beginning readers and writers. The user types any letters, words, sentences, etc., and the program speaks the text aloud. As a word processor, Talking Text Writer allows the user to insert, move, copy, alter, and delete text. Text can be shown in three sizes: 20, 40, and 80 columns of text. Text background in the 20 column mode can vary between 12 different colors. Other features include: word processor interface for younger children; on-line help screens, printing by letter, word, paragraph, etc; control of speech output speed; and a dictionary box for screen display of words and definitions.

System requirements are a 128K Apple IIe or IIc with 80 column card. A school version includes program and data disks, an Echo + board from Street Electronics, and handbook. Home version includes same components without backup disks. School versions without Echo with educator discount are sold for \$149.95. Lab packs are also available.



**Product Name:** Talking Unicorn

**Vendor:** Adaptive Peripherals, Inc.

**Computer:** Apple IIe

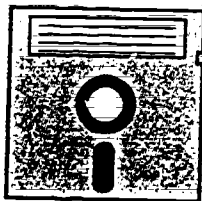
**Manual Form:** Electronic, Printed

**Cost:** Complimentary

The Talking Unicorn disk allows the user to add speech output to the Unicorn keyboard and still use it to operate other programs transparently. This adds speech to the user's input to the program, but not to the program's output: the program does not provide a way of making programs talk. The message that is spoken does not have to be the same as the message that is sent to the computer to operate the application program.

System requirements include an Apple IIe with 128K (i.e. including an 80 column card with extended memory), an Adaptive Firmware Card with a setup disk dated 8/84 or later, and an Echo speech synthesizer. The Talking Unicorn should work with all or nearly all programs that do not use the extended 80 column card themselves. Apple Works will work, but it will be limited to 10K rather than 55K at startup. The program is menu driven. Talking Unicorn is shipped along with new AFCs and Unicorn Expanded Keyboards, it may be copied from someone who has the program, or Adaptive Peripherals will send a complimentary set (includes Talking Scanner and Talking Word Board).

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**Product Name:** Target

**Vendor:** Communication Enhancement Clinic

**Computer:** Apple II family, VIC 20

**Manual Form:** Printed

**Cost:** \$35.00

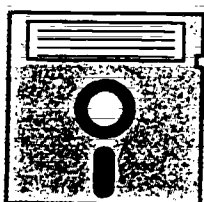
Target is a practice program designed to teach row/column, stepped, directed, and latched scanning. Target may also serve as a communication program. The video display may be divided into seven different square arrays containing 1, 4, 9, 16, 25, 36, or 49 frames. Scanning is controlled by the button of a joystick in standard or adapted form. To accent the arrays, acetate overlays may be attached to the display.

Instructions for making acetate overlays are included with the program. Contact the vendor regarding the availability of custom hardware modifications.



**Product Name:** Task Master  
**Vendor:** Life Science Associates  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$195.00

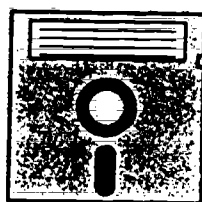
Task Master is an authoring program which enables the user to design rehabilitation and training tasks in six areas: scanning, attention/arousal, memory, sequencing, pair identification, and reading. The program is menu driven and allows the user to write customized instructions to set up individualized tasks, using their own stimuli (e.g. shopping lists, patient's names, etc.) or built-in stimuli included with program. Stimulus position, timing, sequencing, etc. are all user-definable, and tasks can be saved and reused.



**Product Name:** Teaching Vocabulary  
LinguiDisks  
**Vendor:** LinguiSystems  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$99.00

Teaching Vocabulary LinguiDisks contain 2300 words and their definitions. The programs are in the form of a quiz game, and can be operated by students independently. It was designed for students in kindergarten through eighth grade with vocabulary problems. The program keeps score automatically.

Teaching Vocabulary LinguiDisks requires two disk drives. A printer is optional. A system back-up is included. For an additional \$34.95, Help Manuals on LinguiDisks will be available for the Apple; for additional information, contact manufacturer.



**Product Name:** The Adventures of Jimmy Jumper - Prepositions

**Vendor:** Handicapped Children's Computer Cooperative Project

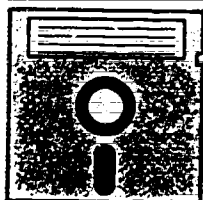
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

The Adventures of Jimmy Jumper - Prepositions is a story presentation program which emphasizes prepositional concepts. The story of a young rabbit, Jimmy Jumper, is presented with synthesized speech and graphics, which illustrate prepositions such as on, over, under, beside, and between. The child uses a game paddle, adaptive switch, or the space bar to either make the rabbit move in the manner specified by the preposition or advance the story screen by screen.

An Echo II speech synthesizer is required for operation.



**Product Name:** The Lost R - Reasoning

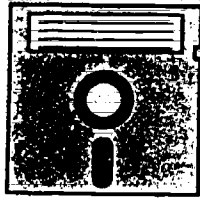
**Vendor:** MCE Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$54.95

The Lost R - Reasoning is an interactive problem solving program designed to address thinking and reasoning skills. The program addresses reasoning skills to solve problems, analyze statements, understand patterns, and make decisions. The program covers the topics of patterns and sequence, diagrammed sets, quantitative implications, logic puzzles, truth, nonsense and opinion. Each topic offers three levels of difficulty for solving puzzles and problems. Reading level for the program is grade 2-3.



**Product Name:** Touch and Match

**Vendor:** Handicapped Children's Computer  
Cooperative Project

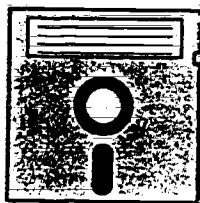
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

Touch and Match is designed to develop the ability to find differences and similarities among categories of objects, and to match these objects based on their similarities or differences. Three main activities focus on matching identical pictures, finding which picture goes with another, and which picture does not belong.

Over 60 pictures of common objects in seven categories are included. Teachers can pick the category of objects to be addressed for each student. Features include data on right and wrong answers and a test mode. Selections are made by pointing to and pressing a picture on the Touch Window (see entry, Personal Touch; also available from HCCCP).



**Product Name:** Touch and See

**Vendor:** Handicapped Children's Computer  
Cooperative Project

**Computer:** Apple II family

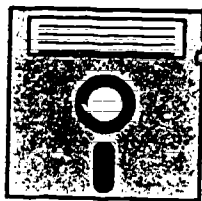
**Manual Form:** Printed

**Cost:** \$39.95

Touch and See is designed to teach matching of similar objects, while developing attention and short term memory skills. Twelve boxes with pictures or words beneath them are displayed. When a box is pressed, it reveals a shape, picture, letter or word. The matching box must then be found. Eight different levels of items can be presented for matching, including shapes, upper case letters, lower case letters, upper and lower case letters, numbers, pictures, pictures and words, and words.

The teacher has the option of selecting how much time children will have to complete the lesson (30, 45, 60 or 90 seconds). With the Touch Window (see entry, Personal Touch), touching the boxes on the screen reveals what is underneath without using the keyboard.





**Product Name:** Toy Assessor

**Vendor:** Expert Systems Software, Inc.

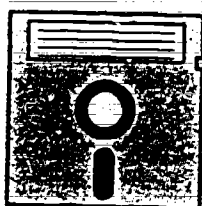
**Computer:** Apple II+, Apple IIe

**Manual Form:** Printed

**Cost:** Comes with Omnibox

Toy Assessor is a training program designed to teach switch operation using two switches and two toys (or other reinforcers). Toy Assessor allows the teacher to program which switch will activate which reinforcer, and at what point one switch-reinforcer pair will stop operating and the other will start. The teacher can also set the duration of reinforcement for each closure, and the names assigned to the movements and reinforcers for each switch. Toy Assessor reports and charts the number of switch closures during each minute of a session. Charts can be saved to disk or printed out.

Toy Assessor requires an Omnibox for timing and for interfacing switches to the Apple. A dot-matrix printer with Grappler-compatible printer interface is required for printing charts.



**Product Name:** Toy Scanner

**Vendor:** Expert Systems Software, Inc.

**Computer:** Apple II+, Apple IIe

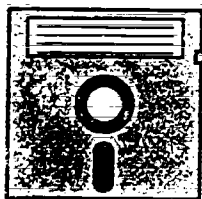
**Manual Form:** Printed

**Cost:** Comes with Omnibox

Toy Scanner is a scanning training program designed to teach the basics of scanning while still reinforcing the act of triggering a switch. For each trial, a symbol for a toy appears randomly in one of four boxes displayed on the screen. A cursor then scans the boxes from left to right. If a switch is activated while the cursor is in the box with the toy symbol, a toy is activated for a pre-determined length of time. Toy Scanner allows the teacher to pre-set scanning speed, reinforcer duration, and the maximum number of cycles of the cursor for each trial. The program records the total number of corrects, incorrects, and no responses, and also for each trial the correct box, the selected box, and the number of scanning cycles before the switch closure.

Toy Scanner requires an Omnibox for timing and for interfacing a single switch with the Apple.





**Product Name:** Trace Math Aid

**Vendor:** Computers to Help People, Inc.

**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$15.00

The Trace Math Aid is a program designed to assist physically disabled students in doing math exercises. The Math Aid does not generate math problems or correct them; it only acts as a worksheet area suited to single-finger or headstick typists. Special functions of Math Aid include on-screen borrowing and carrying operations. When finished working problems, the student may print them on a printer or save worksheets on disk for future reference. Worksheets may also be prepared in advance by a teacher or student.



**Product Name:** Twenty Categories

**Vendor:** Laureate Learning Systems, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$200.00

Twenty Categories uses multiple choice questions to improve categorization skills. Three hundred nouns in 20 categories are contained on two disks. Two question formats are available (which noun fits a category or which category a noun belongs to). Simple menus let the teacher or clinician select the categories to be covered, the criteria to end the lesson, and the question format. The voice and animated character can be turned off if they are not appropriate for the client. Lesson and test summaries automatically keep track of the student's performance and can be printed out for a permanent record.

This program requires an Echo or Cricket speech synthesizer to operate.



**Product Name:** Type N' Parrot

**Vendor:** Schneier Communication Unit

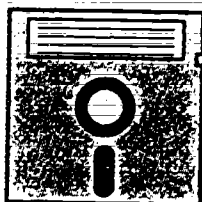
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$30.00

Type N' Parrot is a program designed to familiarize the user with the process of hearing information typed in on the keyboard spoken as synthesized voice output. The user types in a word or phrase, and a menu lets him choose whether to have the text spoken letter by letter as it is typed in, or spoken in its entirety after it has been typed in. The text typed in can be saved, but not to disk (i.e., not permanently).

A speech synthesizer compatible with the computer used is required in order to operate Type N' Parrot. Contact the manufacturer for more information.



**Product Name:** Type-Talk

**Vendor:** Lorin Software

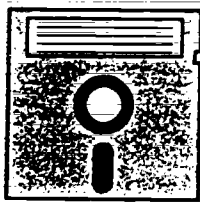
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$49.95

Type-Talk includes six educational modules designed to familiarize visually impaired students with QWERTY and computer keyboarding. Modules for all six levels of learning are arranged to build on increasing familiarity with the keyboard. Provides 12 tutorials that cover the entire Apple keyboard. The program then provides letter and word drills to reinforce the tutorials. Letter Speak and Word Speak verbally repeat keystrokes and words entered at the keyboard. Pressing the Escape key will switch the keyboard out of "perform" and into "announce" mode, in which each key is identified. Pressing Escape again returns the user to the drill. The software includes a Text File program that allows teachers to create word lists for students to practice in Word Drill.

The programs come on one disk for the Apple IIe and IIc computers with 64K of RAM. An Echo II, Echo + or Cricket speech synthesizer is required.



**Product Name:** Understanding Questions, Sentences I & II, Stories

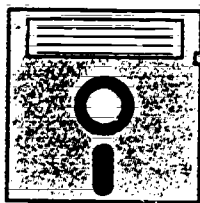
**Vendor:** Sunset Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95 - \$39.95

Understanding Questions, Stories, and Sentences I & II are four reading comprehension programs which target different skills. Understanding Questions program asks "wh" questions to which the user responds by selecting an appropriate answer from two presented choices. Understanding Stories program first presents short written paragraphs which the user reads, then questions related to the information in the story are presented. Understanding Sentences I: Absurdities presents an absurd sentence and asks the user to select which word does not make sense in the sentence. Understanding Sentences II: Abstract Meaning presents sentences that are proverbs or cliches, and the patient chooses the correct meaning of the sentence. All responses are multiple choice and require the user to select a number corresponding to the answer.



**Product Name:** VARP: Vocal Abuse Reduction Program

**Vendor:** College-Hill Press

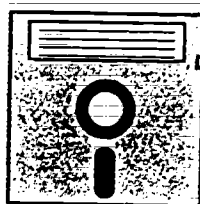
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$165.00

VARP is a step-by-step intervention program for the clinical management of voice disorders resulting from vocal abuse or misuse. It can be used with adults or children. Color graphic illustrations and full explanations of patient/family responsibilities and participation in the program to encourage patient understanding and involvement. The program includes data gathering, calculation, and storage capabilities, including a chart of patient vocal abuse behavior with percentage increases or decreases over time. This is designed to graphically demonstrate patient progress over time, and to relieve the clinician of charting and record keeping duties.

A demonstration disk is available for \$10.00.



**Product Name:** Video Voice

**Vendor:** Micro Video

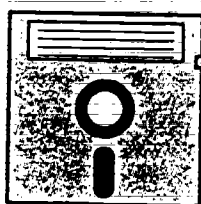
**Computer:** Apple IIe

**Manual Form:** Printed

**Cost:** \$2,995.00

Video Voice is a speech training system that displays a speaker's voice pattern graphically on a computer screen. The speaker's speech pattern can be compared to a model pattern stored in memory. Alternate modes allow the student's pattern to overlay or "gobble up" the teacher's model. Scorecards, adjustable performance goals, cartoon reinforcement, and IEP recordkeeping are standard. Results and records may be printed out.

Pitch, loudness, and rhythm displays are included in the package. A color monitor and two disk drives are required to use Video Voice.



**Product Name:** Visi-Pitch Model 6095

**Vendor:** Kay Elemetrics Corporation

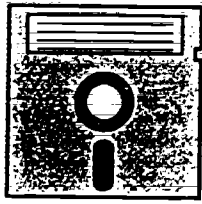
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$2,950.00

Visi-Pitch Model 6095 is a system that displays various qualities of speech visually on an Apple II screen. Speech parameters that can be viewed include pitch, intensity, glottal onset, V.O.T., hard attack, vocal roughness, and timing. In therapy, a model voice pattern can be stored on the screen and then displayed for comparison to a client's speech pattern. Visi-Pitch consists of an external electronic unit, an internal circuit card, and special software. Data on the screen can also be printed out.

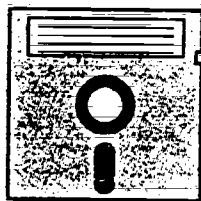
The Visi-Pitch software and 16K of stored data occupy 64K on the Apple. A portable version of the visipitch G087DS weighs 24 lbs., 8" x 13" x 16.5", and costs \$4495.00



**Product Name:** Visible Speech Aid  
**Vendor:** Software Research Corporation  
**Computer:** Apple II+, Apple IIe  
**Manual Form:** Printed  
**Cost:** \$675.00

Visible Speech Aid is a combination hardware and software package that displays various characteristics of a person's voice as patterns on a computer screen. The user speaks into a microphone (included) which is connected to a speech processing unit (an internal circuit card in the computer). The computer then displays the utterance as one of various patterns, depending on which characteristic needs to be analyzed. Pitch, amplitude and rhythm can be displayed, and compared to target models. A game called Duck Walk is featured that encourages young users to sustain their phonation.

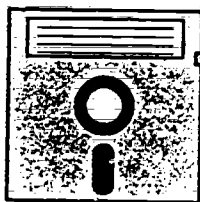
Visible Speech Aid is intended as a teaching tool rather than an analytic tool: it provides no quantification of speech characteristics.



**Product Name:** Visual Recognition  
**Vendor:** Brain-Link Software  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$59.00

Visual Recognition is a visual perceptual training program which provides practice selecting a target item from several visually similar items. The user selects a stimulus (such as letters, colors, shapes, letter combinations) from four items which in some way match the target. Responses are made with a joystick, and do not require use of the keyboard.

Visual Recognition requires an external joystick for operation; contact manufacturer for details.



**Product Name:** Visual/Reading Drills

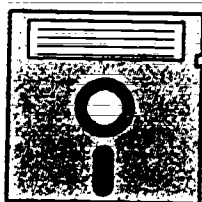
**Vendor:** Sunset Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$79.95

Visual/Reading Drills is a series of perceptual and reading tasks for words in 20 separate categories. Task titles include Matrix Match, T-Scope Typer, Stars, Baker's Dozen, Picnic, and Maze Printer. Task parameters are user-specifiable and client performance is recorded by program. Input to computer is operated from the keyboard.



**Product Name:** Visuospatial Skills

**Vendor:** Psychological Software Services, Inc.

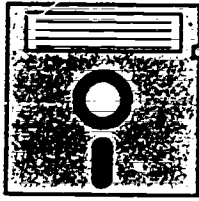
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$300.00

Visuospatial Skills is a series of six visual spatial training programs. Maze I,II records time and errors for user to maneuver through a floor plan as rapidly as possible without hitting the walls. Cube-in-the-Box I,II records time intervals for user to keep a cursor in a randomly jumping frame. Line Orientation I,II displays an array of lines and asks the user to rotate a single line on the right of the screen to match a randomly selected item in the array, matching either visually or from memory. Fine Motor asks user to maneuver the cursor along a track on the screen at a fast but steady pace (cursor will disappear briefly if user proceeds too quickly); program records time and number of restarts. Visual Perception (Closure and Integration of Parts) records success at recognizing a shape from visual presentation through a vertical slit sweeping across the screen, exposing only a portion at a time. Paddle Ball asks user to intercept a ball at the bottom of screen with game paddle to keep it in play.

Programs require use of paddles or joystick; contact manufacturer for details.



**Product Name:** Voice English Language Development

**Vendor:** Chatterbox Voice Learning Systems

**Computer:** Apple IIe

**Manual Form:** Printed

**Cost:** \$295.00

Voice English Language Development uses voice input and voice output to improve language skills. Words, phrases and sentences are presented in sequential lessons. During training the student repeats the stimulus item which is presented graphically and is spoken by the speech synthesizer. After training, each item is presented again. If the student does not respond correctly, the item is spoken by the speech synthesizer. The student then gets two more opportunities to provide the correct language structure.

Voice English Language Development requires an Apple IIe, and will not work with the Apple IIc. The program includes the software and a Sony headset/microphone. The Echo (II or +) speech synthesizer and Introvoice input module must be purchased separately.



**Product Name:** Voice Math

**Vendor:** Chatterbox Voice Learning Systems

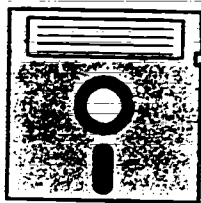
**Computer:** Apple IIe

**Manual Form:** Printed

**Cost:** \$295.00

Voice Math uses voice input and voice output to improve math skills. Math skills covered include numbers, time, dates and shapes. During training items are presented both on the screen and by the speech synthesizer. The student repeats that item to train the voice recognition unit in the way that student says it. After training, items are presented on the screen and the child responds verbally. If the student is incorrect, the correct response is spoken by the speech synthesizer. The student then gets two more opportunities to answer.

Voice Math requires an Apple IIe, and will not work with the Apple IIc. The program includes the software and a Sony headset/microphone. The Echo (II or +) speech synthesizer and the Introvoice input module must be purchased separately.



**Product Name:** Voice Reading Ability Drill  
**Vendor:** Chatterbox Voice Learning Systems  
**Computer:** Apple II+, Apple IIe  
**Manual Form:** Printed  
**Cost:** \$295.00

The Voice Reading Ability Drill uses voice input and voice output to improve reading skills. During training, each word is presented as an illustration, in printed form, and spoken by the speech synthesizer. The student repeats the word to train the voice recognition component in the way that student says it. After training, each word is printed on the screen. If the student reads it aloud accurately, the illustration is presented along with a tune. If not, the correct word is spoken by the speech synthesizer. The student then gets two more opportunities to read the word.

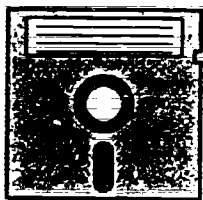
The program includes 15 disk sides, headset/microphone and complete documentation. Approximately 800 words are organized into 4 levels: 120 short vowel words, 120 short vowel/consonant blend words, 120 long vowel and vowel blend words, and 200 sight words. The program will not run on the Apple IIc. Echo II or Echo + speech synthesizer and Introvoice input module are not included.



**Product Name:** WALC LinguiDisks  
**Vendor:** LinguiSystems, Inc.  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$99.00

This program puts the Workbooks for Adult Language and Cognition (WALC) onto the Apple computer. The areas covered include: language, general information, reading for comprehension, analogies, sentence completions, and others. Automatic scoring is a part of the program. Data can be personalized for each client. The set includes one system disk, one utility disk, and one record disk.





**Product Name:** Ways to Play

**Vendor:** Words+, Inc.

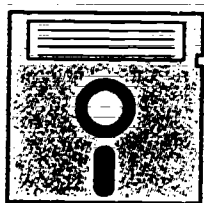
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$99.00

Ways to Play is a software package containing several video games and puzzles that require only single switch activation to play. The four games included on the basic disk are Bomber, Cram, Tic-Tac-Toe, and Trader. Additional games currently available are Hangman and Towers of Hanoi (extra). Additional games are planned.

An adapter for single switch input to the computer is provided with the package.



**Product Name:** Word Memory Programs

**Vendor:** Instructional/Communications  
Technology, Inc.

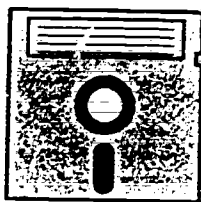
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$65.00 each

Word Memory Programs is a word recognition and visual memory training program presented in three steps. Step 1: Word Scan presents a target word in a sentence, followed by random word drills three words per line which scan left to right at 30-180 words per minute. The student must count each appearance of the target word either by hitting space bar or counting silently. Step 2: Word Flash presents the same target words in sentences as in Step 1 except that the target word is missing from the sentence; users must enter missing word by selecting it from foils or typing it from memory, depending on difficulty level selected. Step 3: Follow-up reports on student success on hard and easy words, and stores performance data for later use.

Word Memory Programs are available in two levels of difficulty, with choice of vocabulary options selected from basal reading series or manufacturer developed reading vocabularies. Contact manufacturer for details.



**Product Name:** Word Recognition

**Vendor:** Brain-Link Software

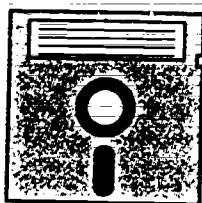
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$169.00

Word Recognition is an auditory comprehension program that provides practice at recognizing words spoken by a speech digitizer. The package consists of six programs, three each for word and color recognition, each of which increase in difficulty from one to three word sequences. The user selects from graphic drawings displayed on the screen in response to computer vocalization of the target word.

The Word Recognition program requires dual disk drives and a Mountain Computer Supertalker SD200 speech digitizer (see entry). Input can be made via keyboard, joystick, or a KoalaPad.



**Product Name:** World of Counting

**Vendor:** Educomp Enterprises

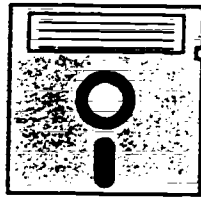
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$29.95

The World of Counting is a software package designed to teach basic counting principles. Music and sound effects are used to reinforce positive responses. The World of Counting also automatically scores and records response times and allows the user to skip to any level in the program at any time. A final test is provided at the end.

A color monitor is recommended when running The World of Counting. The World of Counting may be easily modified by anyone familiar with the Apple Pilot programming language. Manufacturer can be contacted by mail.



**Product Name:** Write

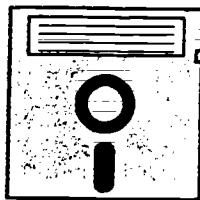
**Vendor:** Computers to Help People, Inc.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Write is a program that displays up to twenty words or phrases in large type on the screen, and the user is prompted to copy the word letter by letter at the top of the screen. Sentences build up at the bottom. The user may also write words without copying, and new words may be entered into the available list on-the-spot. Sentences constructed may then be printed or spoken through a voice synthesizer. Write also allows the user to match letter by letter. Words may be spoken letter by letter, a word at a time, or a sentence at a time. Write features an automatic shift and audible feedback when a key is pressed.



**Product Name:** Writing to Read

**Vendor:** IBM Corporation

**Computer:** IBM PC jr

**Manual Form:** Printed

**Cost:** \$725.00

Writing to Read is a computer-based instructional system designed to develop kindergarten - first grade writing and reading skills. The program uses a digitized voice attachment card to introduce the individual phonemic sounds of the alphabet. Users are presented with the computer as a tool to begin to use written language to represent spoken language. The program is multi-sensory, self-paced, and interactive.

Writing requires an IBM PCjr with 128K memory, double-sided disks and BASIC cartridge, and the PCjr Color Display. PCjr Speech Attachment is also necessary for voice output capabilities. Program also includes Teacher's Manual which explains program, concepts, learning strategies, and use of program as part of an integrated curriculum. Contact manufacturer for details.

# Chapter 12

## Recreation Software

*This chapter includes programs whose primary function is to provide recreation. If a program has a game format, but the primary function is education and training, it will be listed in Chapter 11, but will also be found in Index A, Products Listed By Function under the Recreation listing.*

*Related functions in the cross reference indexes include Drawing (DR), Games (GA) and Education/Training/Therapy (ET).*

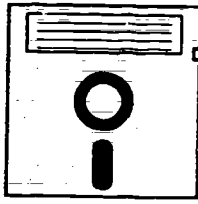
*Appendix A includes an information summary dealing with other Software Resources.*

The following product entries appear in this chapter:

Blazing Paddles 3-299  
Creativity Tool Box 3-299  
Dot & Draw 3-300  
H:1 Handicapped Word Games 3-300  
Magic Music Teacher 3-301  
Motor Training Games 3-301  
PIC Man 3-302  
Picture Perfect 3-302  
Single Switch Game Library 3-303

The following products from other chapters can also be used for Recreation:

Audio Braille Game Tutorial 3-191  
Equalizer 1-64  
Gibson Light Pen System 3-62  
Graphics Magician Jr. 3-319  
Graphics Magician Painter 3-319  
H:2 Handicapped Arithmetic Flash Cards 3-224  
Hand/Eye Coordination Programs 3-225  
Leo's Electric Paintbrush 3-324  
Lite Touch 3-38  
Living Center III 1-69  
Maze 3-243  
Micro Illustrator 3-328  
Mind Master 3-39  
Morse Code & Scanning Practice Programs 3-247  
Phonics, Text, and Graphics 3-252  
PowerPad 3-64  
Race the Clock 3-260  
Super Shape Draw & Animate 3-337  
Talking Wheelchair 3-340  
Touch Window 3-65  
ToyPAQ 1-33  
Ways to Play 3-293



**Product Name:** Blazing Paddles

**Vendor:** Baudville

**Computer:** Apple II family, Atari,  
Commodore 64

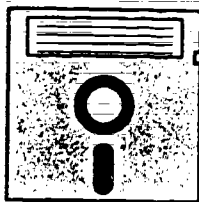
**Manual Form:** Printed

**Cost:** \$34.95 - \$49.95

Blazing Paddles is a graphics program that allows color graphics to be created using a variety of input devices. The user can paint with a variety of strokes, and add geometric shapes and text. Color mixing makes possible over 200 textured hues. A Zoom feature allows pixel editing. A window feature allows sections of the screen to be moved or duplicated.

A variety of shapes and text fonts are provided, and more are also available at extra cost. Compatible input devices include Koala Pad, Apple Graphics Tablet, Apple Mouse, Tech Sketch Light Pen, and any joystick or similar paddle port device. Contact the manufacturer about printer compatibility.

The Commodore 64 and Atari 800 versions cost \$34.95. The Apple version is priced at \$49.95.



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**Product Name:** Creativity Tool Box

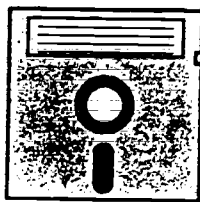
**Vendor:** Titania Publications

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$44.95

Creativity Tool Box is a drawing program which allows users to create instant graphics or people at the touch of a key. Other capabilities include writing poetry or music, and drawing letters in 72 different types or sizes. The program operates using a graphics pad type device. Contact manufacturer for further information on requirements and features of this program.



**Product Name:** Dot & Draw

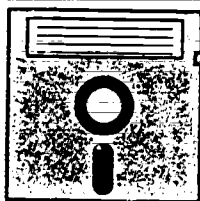
**Vendor:** Titania Publications

**Computer:** Apple II family, Commodore 128,  
Commodore 64

**Manual Form:** Printed

**Cost:** \$34.95

Dot & Draw is a drawing program which allows users to draw and play "follow the dots" with original pictures or the program's pictures. Pictures can then be painted with up to 300 colors and patterns. Game can be played at two levels of difficulty.



**Product Name:** H:1 Handicapped Word Games

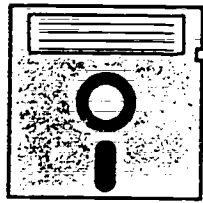
**Vendor:** E. David & Associates

**Computer:** Commodore 64, TRS-80 Model III

**Manual Form:** Printed

**Cost:** \$24.95

H:1 Handicapped Word Games is a variation of the games "hangman" and "scramble" made accessible to persons unable to accurately touch the computer console keys. In this version, both the unknown word and definition are displayed, to practice both vocabulary and spelling skills. Vocabulary and definitions are user-specifiable.



**Product Name:** Magic Music Teacher

**Vendor:** Educational Software Review

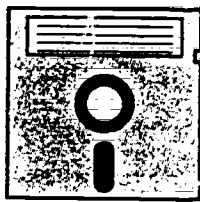
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$69.95

Magic Music Teacher is music training program designed to teach basics of melody and rhythm. The program includes four Suzuki-style activities to teach melody and rhythm for users from five to adult. The Magic Music Teacher addresses skills in auditory discrimination, sequencing, listening, hand-eye coordination, and elementary computer use.

Options with the program include an Echo or Cricket speech synthesizer, a Koala Pad, or adaptive switching devices (all extra). Contact manufacturer for details.



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**Product Name:** Motor Training Games

**Vendor:** Washington Research Foundation

**Computer:** Apple II family

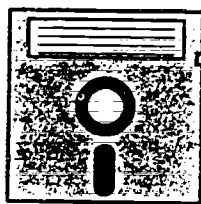
**Manual Form:** Printed

**Cost:** \$15.00

Motor Training Games are recreation/training programs for the Apple family of computers. Motor Training Games are operated by one or two motor movements, and are designed to acquaint disabled individuals with control switches in a comfortable, low-stress atmosphere. Motor Training Games are also designed to aid therapists in evaluating and refining the motor abilities of a particular user. Motor Training Games consists of fourteen games appropriate for preschool through teen users, or higher.

One or two microswitches must be substituted for, or wired in parallel with the Apple game buttons through the game I/O port. An older version of Motor Training Games that runs on either DOS 3.2 or 3.3 is available from Computers to Help People, Inc. (see address list).





**Product Name:** PIC Man

**Vendor:** Developmental Equipment

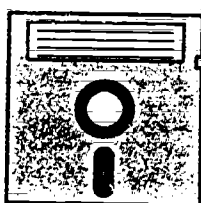
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$54.50

PIC Man is a Logo-based drawing program activated by a single switch. Commands are displayed at the bottom of the screen in Blissymbols. Programs may range from simple one choice selection to multiple choice selection.

A switch interface and a single switch are required to operate PIC Man.



**Product Name:** Picture Perfect

**Vendor:** Methods & Solutions, Inc.

**Computer:** Apple II family, IBM PC family,  
IBM PC jr

**Manual Form:** Printed

**Cost:** \$39.99

Picture Perfect is a drawing program designed for children. Drawings can be created by free-form drawing or by selecting any of 100 pre-drawn pictures, which can be added into existing compositions. The menu of options offered the user also includes the ability to select different types of rendering (line, shading, etc.). Input to the program can be via keyboard, joystick, or mouse; but a joystick is required for drawing. Picture Perfect is equipped with a "challenge upgrade option," which allows various aspects of the program to be set for varying skill levels. These aspects can be adjusted independent of each other.

A joystick is required to use Picture Perfect.



**Product Name:** Single Switch Game Library

**Vendor:** Rushakoff, G.E.

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** See below

Single Switch Game Library is a set of games modified with the Florida Scanner (see separate entry in this book) so that they may be played with a single switch. The Library contains a single switch game menu so that the user may switch between games easily. Games are designed for ages 6 to 18.

Included are "Guess the Number" (\$5.00), "Hangman" (\$10.00), "Magic Cards" (\$5.00), "Fur Trader" (\$10.00), "Samurai Sword" (\$5.00), and "Swords & Sorcery" (\$5.00). Please include \$5.00 for disk and postage. A single switch plugged into the game port is required for operation.

# Chapter 13

## Personal Tool or Aid Software

*This chapter contains software programs that are designed to be used on a long term basis by an individual as a personal tool or prosthetic aid. This includes programs which facilitate an individual's ability to communicate, write, draw, control, and move about. Programs whose primary function is to facilitate the development of writing or conversation skills are in the Education and Training and Therapy chapter. Special word processors, Braille notebooks, Braille translators, environmental control systems, etc. will be found in this chapter.*

*Related functions in the cross reference indexes include Conversation/Interaction (CI), Braille (BR), Word Processing (WP) Environmental Control (EC), etc.*

*Appendix A contains information summaries on a variety of topics including Software Resources, Networks/Bulletin Boards/Databases, Newsletters and Publications, etc.*

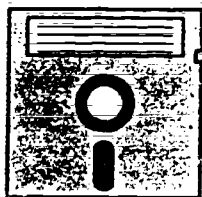
## Chapter 13: Personal Tool or Aid Software

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Appliance Genie 3-307  
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Automatic Form Writer 3-308  
BEX 3-309  
Blissymbolix: Bliss Library 3-309  
Blissymbolix: Blissboard 3-310  
Braille Translation Software 3-310  
Braille-Talk 3-311  
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Ultimate File Cabinet 3-346  
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Governor 3-135  
Keynote 3-88  
Magic Slate 3-239  
Response Optimizer 3-140  
VersaBraille 3-111  
Viewscan Text System 3-100



**Product Name:** AARON

**Vendor:** AESIR Software Engineering

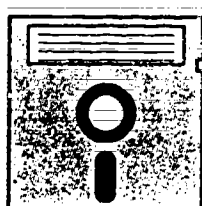
**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$350.00

AARON is a row/column scanning communication and writing program that anticipates the characters most likely to be selected by the user. Over time, AARON also automatically adjusts which letters are anticipated, based on the users's selections. AARON may store up to five screens of commonly-used phrases which may be programmed by the user. Scanning rate is user adjustable.

A color monitor is required to operate AARON.



**Product Name:** Appliance Genie

**Vendor:** Schneier Communication Unit

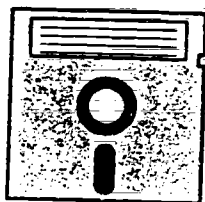
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$30.00

Appliance Genie is a pictographic environmental control system. The program places graphic representations and words for each of three electrical appliances on the computer screen. The user selects the desired appliance by scanning with a single switch or by using the keyboard. The program turns on the selected appliance through an environmental control interface (not included).

Both a single switch interface and an environmental control interface are required to operate the Appliance Genie. Contact the manufacturer about which interfaces are compatible.



**Product Name:** Audio Scan

**Vendor:** Developmental Equipment

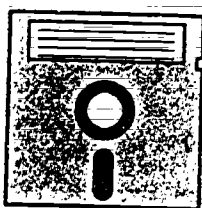
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$99.50

Audio Scan is a communication program designed for individuals with both physical and visual handicaps. Words are spoken in sequence, and the user makes selections with a single switch. The user's vocabulary is stored in a branched "tree" system.

A switch interface, a single switch, and an Echo II voice synthesizer are required to operate Audio Scan.



**Product Name:** Automatic Form Writer

**Vendor:** Maryland Computer Services, Inc.

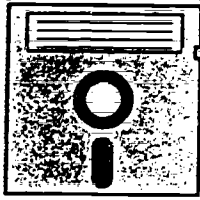
**Computer:**

**Manual Form:** Printed

**Cost:** Contact manufacturer

Automatic Form Writer is a Program designed to run on a computer with synthesized speech output. The system vocally prompts the user so that he can enter data into forms. Each type of form that the user will be dealing with must be separately programmed. The program also allows custom printing formats to be created so that the data that the user enters can be printed on to a standard form.

Contact the manufacturer for information about what computer system the program can run on, and what the price of the system will be.



**Product Name:** BEX

**Vendor:** Raised Dot Computing

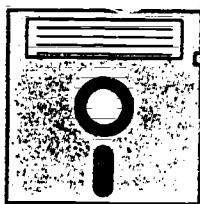
**Computer:** Apple IIc, Apple IIe

**Manual Form:** Audiotape, Braille/Tactile, Printed

**Cost:** \$400.00

BEX is a word processor for the Apple IIe and IIc that can create large print, braille, or synthesized speech output. Large print can appear on the screen or compatible dot-matrix printers. BEX can translate standard print files to grade 2 braille, and can also back-translate grade 2 braille files to print. BEX's word processing functions include editing, reviewing, changing, page numbering, creating running heads, and setting margins and tabs. Three preview modes create an exact image of the printed or embossed page for visual and voice review. Cursor control allows for movement by character, word, sentence, or paragraph, with or without speech output. BEX can be learned at three levels of complexity.

BEX is strictly software (four disks); hardware must be purchased separately. BEX supports braille output to every braille embosser and device on the market; many printers and speech synthesizers are compatible as well. Some interface devices may be required. Contact the manufacturer for details.



**Product Name:** Blissymbolics: Bliss Library

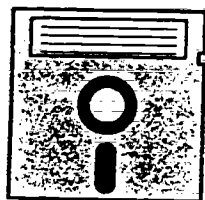
**Vendor:** MECC (Minnesota Educational Computing Consortium)

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$96.00

Bliss Library is a set of three diskettes containing nearly 1500 Blissymbols. The symbols can either be displayed on the screen or printed on a graphics printer. Printed symbols can be used for communication boards, Blissymbolics text for stories, or teaching tools. The program requires a DOS for the Apple of at least 3.3. This library can be useful to programmers or teachers developing instructional programs using Blissymbolics.



**Product Name:** Blissymbolics: Blissboard

**Vendor:** MECC (Minnesota Educational Computing Consortium)

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$44.00

This package consists of both printed and computerized versions of the Blissboard. Any switching device, game paddle, or simple keyboard contact enters one symbol at a time to create sentences. Blissboard offers the option of displaying the word corresponding to each symbol. Results can be printed using a graphics printer. For ages Preschool - Adult.



**Product Name:** Braille Translation Software

**Vendor:** Maryland Computer Services, Inc.

**Computer:** IBM PC family

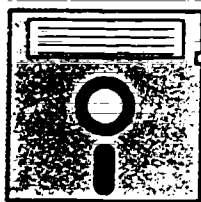
**Manual Form:** Printed

**Cost:** \$495.00

Braille Translation software is a program designed to take a standard text file that has been entered on a computer, convert it to grade 2 (contracted) braille, and print it on a braille printer (not part of the package). A feature is provided for adding corrections to the translation, and saving those corrections for future use.

Contact the manufacturer for information about what computers and what braille printers are supported.





**Product Name:** Braille-Talk

**Vendor:** Computer Aids Corporation

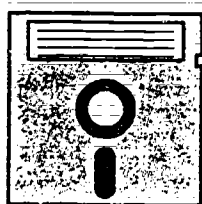
**Computer:** Apple II family, IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$125.00 - \$195.00

Braille-Talk is a Grade One or Two Braille translator program with voice output. Braille-Talk allows standard text to be translated into Braille for embossing. No prior knowledge of text-to-Braille translation is necessary to operate Braille-Talk. Information displayed on the screen is simultaneously spoken as each key is typed. Speech output may be momentarily silenced or turned off entirely at any time.

Braille-Talk supports a variety of Braille printers as well as most commercially available speech synthesizers.



**Product Name:** Cacti Word Processor

**Vendor:** Cacti Computer Services

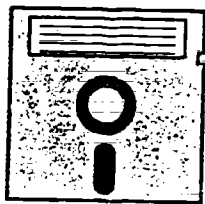
**Computer:** Apple II family, Commodore,  
IBM PC family

**Manual Form:** Printed

**Cost:** See below

Cacti Computer Services will write custom software for Apple, Commodore or IBM computers if a handicapped person is unable to find appropriate software for a particular activity or purpose. One of the programs that has been written is a simple word processor which operates without the requirement of using multiple keys (e.g., Control P) for some functions. This word processor does all the simple activities (save, load, insert, delete, change) but does not do the fancier word processing functions like block moves. Everything is controlled with single key presses.

The Cacti Word Processor costs \$25.00 for institutions, but is free to handicapped individuals or with the purchase of their Pressure Sensitive Expanded Keyboard (see separate entry).



**Product Name:** Calc-Talk

**Vendor:** Computer Aids Corporation

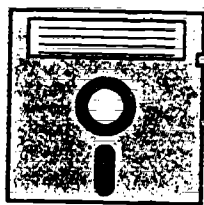
**Computer:** Apple II family

**Manual Form:** Audiotape, Printed

**Cost:** \$75.00

Calc-Talk is a voice output program that changes the standard Apple keyboard into a 24 function calculator with ten memories. In addition to voice output, Calc-Talk displays characters that are nearly an inch high for visually impaired users. All scientific functions included are trigonometric, logarithms, exponents, and roots. All entries, functions and answers are spoken.

Calc-Talk supports most commercially available voice synthesizers.



**Product Name:** CHPI Apple Tool Kit

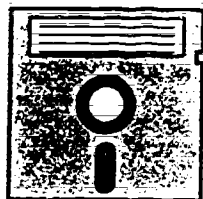
**Vendor:** Computers to Help People, Inc.

**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$15.00

The CHPI Apple Tool Kit is designed for individuals who are blind, deaf and blind, have difficulty operating a keyboard, or who type using a single finger or headstick. The Tool Kit includes a word processing program with special features for the single finger or headstick typist, a smart terminal program, and offers Braille and grade two Braille output to a Braille printer or paperless Braille. Morse code output is also provided, and may be sent to an internal or external speaker, or headphones. Documentation is self-contained.



**Product Name:** Classy Letterheads - Speak!

**Vendor:** Speech Enterprises

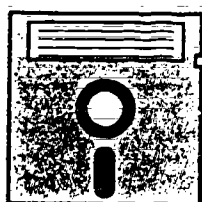
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$35.00

Classy Letterheads - Speak! is a printing utility program designed to add personalized large print (18 point type size, 0.25" - 0.33") headers or footers to letterheads, memos, announcements, etc. Classy Letterheads may also be used to generate forms. The program is designed to be used in 20-column text on the monitor with speech output, but may be used without speech.

Three TEX-TALK Fonts Disks with additional typefaces are available for use with Classy Letterheads. 64K and two disk drives are required, as well as a speech synthesizer if speech output is desired. Contact the manufacturer about compatibility of particular printers or speech synthesizers.



**Product Name:** Comm-Prog

**Vendor:** Cacti Computer Services

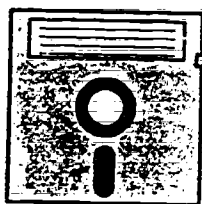
**Computer:** Apple II family, Commodore

**Manual Form:** Printed

**Cost:** See below

Comm-Prog is a communication program that allows the user to communicate by selecting words and phrases from menus on the screen with single keystrokes. The user presses the first letter of the desired word, and a menu of nine words appears on the screen. The user may either select one of those words with a single keystroke or press the initial letter again to call up the next list of words beginning with that letter. Provision is made to type in words letter by letter which are not in the programmed vocabulary.

Comm-Prog costs \$25.00 for institutions, but is also shipped free with the purchase of the Pressure Sensitive Expanded Keyboard (see entry, Cacti Computer Services).



**Product Name:** Communicator

**Vendor:** Prometheus Software

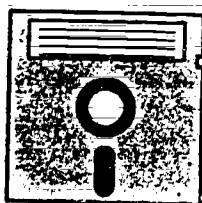
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$195.00

The Communicator is a single switch text editing program that accepts input from a microswitch or the "fire" button on a joystick. Selections are made from an array using row/column scanning. The scanning grid is layed out according to letter frequency of use, and the scanning rate is user adjustable. The Communicator may store up to ten pages of text at a time. The program automatically shuts off if not used for some time. The Communicator also offers an alarm signal.

A microswitch must be wired in parallel to the "fire" button of a joystick for alternate switch operation. The joystick controls scanning rate while the switch selects letters.



**Product Name:** Communitree - First and Second Editions

**Vendor:** Communitree Group

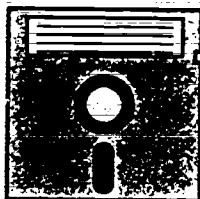
**Computer:** Apple II family, IBM PC family

**Manual Form:** Printed

**Cost:** \$145.00 - \$295.00

CommuniTree - First and Second Editions are intelligent message networks designed in a database format. Messages are placed where they will be best seen by the receiver. CommuniTree users gain access to the central computer by calling from a remote location. A seven level password protection system and private sections of the tree allow for privacy for both sender and receiver. CommuniTree may also act as a public bulletin board system, as a private professional exchange between colleagues, or as both at the same time. CommuniTree allows the disabled user to work at home, contact remote locations, and move messages and data around quickly and easily.

A Hayes Micromodem II is required to remotely contact both CommuniTree editions. Communitree - First Edition is designed for the Apple II series and costs \$145.00. Communitree - Second Edition is an expanded version that runs on the IBM PC, and costs \$295.00. The Second Edition has expanded message capacity, allows uploading and downloading of DOS files, and supports most modems. Contact manufacturer for details.



**Product Name:** Computerized Enabling System

**Vendor:** Computerized Enabling Systems

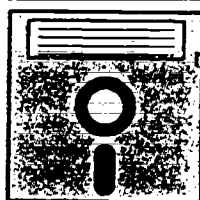
**Computer:** Commodore 64

**Manual Form:** Electronic

**Cost:** \$1500.00 - 4400.00

The Computerized Enabling System (CES) is a multiple function program with telephone and environmental control, word processing, and computer programming capabilities. The CES will store several hundred telephone numbers and control over 200 separate remote locations if proper control modules are in place. The CES is flexible, allowing the user to purchase only the functions desired. Additional functions may be added at a later time.

All selections and control functions may be made with a single switch or a joystick.



**Product Name:** Control Without Keyboards

**Vendor:** J. Jordan & Associates

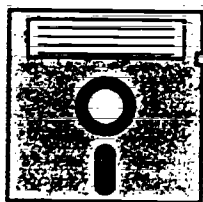
**Computer:** Apple II+, Apple IIe

**Manual Form:** Printed

**Cost:** \$299.00

Control Without Keyboards is a software package that can be used in conjunction with the PowerPad to create custom communication aids. An overlay with user-defined symbols is laid on the PowerPad; the desired voice or printed output for each defined area of the PowerPad is then stored on the computer using the Control Without Keyboards program. When the user presses a defined area of the PowerPad, a voice synthesizer speaks the desired word, phrase, etc. A printer can provide output as well. The number of custom keyboards that can be created, stored, and recalled depends on the disks used: One disk will hold 5 templates.

Control Without Keyboards requires a PowerPad and an Echo II speech synthesizer for operation. A CWK Template Design Kit is available at no charge; return it to the manufacturer with an order and the template defined will be shipped with the software package.



**Product Name:** Duxbury Braille Translator

**Vendor:** Duxbury Systems, Inc.

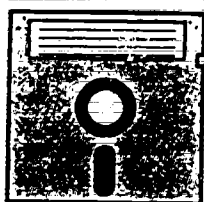
**Computer:** Any CP/M Computer,  
Apple II family, IBM 3270, IBM PC family

**Manual Form:** Braille/Tactile, Electronic, Printed

**Cost:** \$495.00 - \$895.00

The Duxbury Braille Translator is a text-to-Braille and Braille-to-text translation program as well as a word processor. This translator allows a sighted person with no knowledge of Braille to type and edit text, and format it into Braille. The Duxbury Braille Translator is capable of grade 1 and grade 2 Braille output in American, British, Spanish, and Arabic, and grade 1 Braille in four other languages. The system is compatible with hard and soft copy Braille output devices, and large print output devices.

A new MS-DOS version of the Duxbury Braille Translator can be used with most word processing programs. A version is also available which runs on the Versabraille II (see entry, Telesensory Systems).



**Product Name:** E-Z Pilot II Authoring System  
and Training Package

**Vendor:** Speech Enterprises

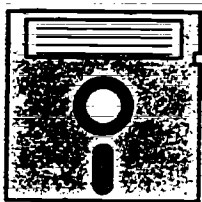
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$79.95 - \$219.95

E-Z Pilot Authoring System is a computer programming authoring system for a basic programming language called PILOT. PILOT is a language similar in structure but simpler than BASIC, designed for creating lessons and interactive tutorials over any subject. The Authoring System provides capabilities for developing lessons or story programs with optional sound or graphics, when using an Echo II or Cricket speech synthesizer and graphics pad (contact manufacturer for details). The program is designed to utilize both large print and speech output simultaneously. This system sells for \$79.95 and includes sample lessons, tutorial and authoring disks, and technical handbook.

E-Z Pilot II Training Package is a separate introductory computer programming training package, to train students to program in PILOT, and to construct simple programs or write lessons. The package sells for \$239.95 and includes a student manual, instructions and recommendations for lesson development, as well as PILOT program disks, technical instructions, and tutorial and sample lesson disks.



**Product Name:** Easy Programmer

**Vendor:** Grimaldi & James

**Computer:** Apple IIe

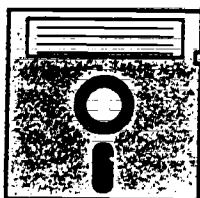
**Manual Form:** Printed

**Cost:** See below

Easy Programmer is a program that permits an Apple computer to be operated without touching the keyboard. The user can create a program in BASIC language. The user selects commands or characters from menus presented on the screen by Easy Programmer. Easy Programmer uses a special control panel consisting of five buttons: four move the cursor in four directions; the fifth enters the character selected.

Easy Programmer requires the enhanced Apple IIe with 128K. The current version of Easy Programmer is in the public domain. The price of \$2.00 covers the cost of handling, copying the program on to a disk (person ordering must provide the disk), a manual for the program, and plans for constructing the control system. Construction of the control system is simple, and requires only the ability to solder.

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**Product Name:** Electronic 31 Day Calendar

**Vendor:** Computer Users of America

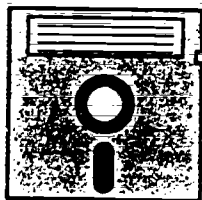
**Computer:** IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$15.00

The Electronic 31 Day Calendar is a voice output appointment book that stores up to five entries per day and entries up to 31 days ahead. New entries may be made at any time, and appointments may be looked up for a certain day or for all days between certain dates. Each month is stored separately on disk and may be loaded at any time.

For the IBM version, an Echo PC is required.



**Product Name:** Fast Access Scan Talker

**Vendor:** Laureate Learning Systems, Inc.

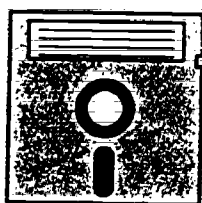
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$100.00

Fast Access Scan Talker (FAST) is a program that allows an Apple II computer to be used as a scanning communication aid. FAST is used in conjunction with another program by the same manufacturer: Speak Up. With Speak Up the user can create, define, and store the pronunciation of words; with FAST, words and phrases can be stored in 20 files of up to 40 phrases each, and recalled by scanning selection. FAST has two scanning modes and 40 scanning speeds.

FAST requires an Echo II or Cricket speech synthesizer and a single switch for operation.



**Product Name:** File-Talk

**Vendor:** Computer Aids Corporation

**Computer:** Apple II family

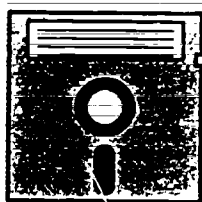
**Manual Form:** Printed

**Cost:** \$195.00

File-Talk is a voice output database management program which allows creation of files, searches, sorts, and other database function instantaneously. Records can contain 250 fields, with 3K of information, and can be sorted any time. Other features include on-screen arithmetic computations, auto modem dialing, date and time fields display, and printing of mailing labels, custom letters, and lists.

A speech synthesizer is required for voice output, and system is compatible with most printers; contact manufacturer for details.





**Product Name:** Graphics Magician Jr.

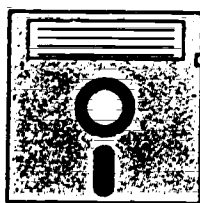
**Vendor:** Polarware

**Computer:** Apple II family, Commodore 64

**Manual Form:** Printed

**Cost:** \$19.95

Graphics Magician Jr. is a drawing program that is a basic version of the Graphics Magician Painter (see entry). The program allows the user to do freehand drawing, picture magnification, and automatic color fill. Requires no knowledge of programming.



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**Product Name:** Graphics Magician Painter

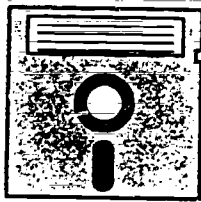
**Vendor:** Polarware

**Computer:** Apple II family, Apple Macintosh,  
Atari, Commodore 64, IBM PC family

**Manual Form:** Printed

**Cost:** \$24.95 - \$49.95

Graphics Magician Painter is a design package which allows the user to draw with computer graphics. The drawing program lets you draw freehand, using geometric shapes, in 3-D, from different perspectives, and with automatic color fills. Versions for the Apple and Macintosh include an animator which allows creation of animations with a shape editor, path editor, and choreographer. Use of the animator version requires some knowledge of programming.



**Product Name:** Handi-Writer Version 3.51

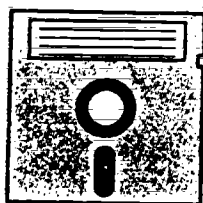
**Vendor:** HFB Enterprises

**Computer:** TRS-80 Color

**Manual Form:** Printed

**Cost:** \$16.95

Handi-Writer Version 3.51 is a communication program for the TRS-80 Color Computer. One or two users may operate Handi-Writer at the same time, using joysticks or five-button keypads. Messages constructed may be printed out on an optional printer. Handi-Writer may also be used to evaluate a user's math and language abilities. The manufacturer offers custom programming services to Handi-Writer purchasers for individual tailoring of word lists and appliance names.



**Product Name:** Hot Dots

**Vendor:** Raised Dot Computing

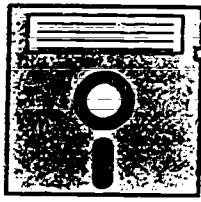
**Computer:** IBM PC family

**Manual Form:** Audiotape, Electronic, Printed

**Cost:** \$300.00

Hot Dots is a program for the IBM-PC that allows the user to translate standard print text files to grade two braille and to output the braille files to a variety of braille printers. Hot dots can also translate grade two braille files to standard print text files. Hot dots includes a global search and replace feature (useful for changing text and for adjusting braille translation) and a formatting feature (useful for switching between braille and print page layouts). There is also a speech interface compatible with most popular IBM speech synthesizers.

Hot Dots requires 128K of memory and at least one disk drive. Contact the manufacturer for information about the compatibility of Hot Dots with particular printers or speech synthesizers.



**Product Name:** Illustrations

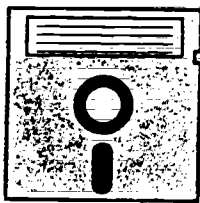
**Vendor:** Lorin Software

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$115.00

Illustration is a graphics dump program for the Apple IIe and Apple IIc with 64K RAM. The program allows the user to print out pictures from the screen to a raised dot tactile graphic representation. Any drawing tool can be used (e.g. koala pad, power pad, mouse) to create the pictures. Once the pictures have been created and are displayed on the screen, Illustrations allows them to be printed in raised dot form using one of these braille printers: Perkins Cranmer Modified Brailier, Ohtsuki BT5000, or the Personal Brailier (see separate entries for these in Book 3, Chapter 6). Two features in the program designed to increase usefulness include the ability to pick which panel will be printed, and the ability to print borders (making it easier to fit panels together).



**Product Name:** Illustrations

**Vendor:** Speech Enterprises

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$115.00

Illustrations is a graphics program that allows creation of dot graphics for braille output. The program can create tactile representations of objects using raised dot outlines. The program "shows" the user how to draw a figure to fit onto a brailled page, and can save and print one to six pictures per file.

A braille printer such as the Ohtsuki Printer/Brailier or the Cranmer Modified Perkins Brailier is required for braille output; contact manufacturer for compatability of other braille printers. Illustrations is not speech compatible. Program can also utilize optional Apple Mouse Paint Program, Koala or PowerPad for input; contact manufacturer for details.



**Product Name:** Joywriter

**Vendor:** Green Software

**Computer:** Commodore 128, Commodore 64

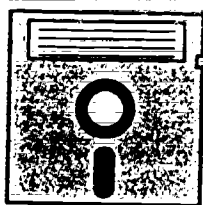
**Manual Form:** Printed

**Cost:** \$199.00

Joywriter is a word processing program with various input and output options. Users can access all functions with single or double switches, joystick, or Lite Touch (see separate entry). Program is menu-driven and allows access to all standard keyboard functions such as shift and caps lock with the matrix on screen. The program provides single screen scanning, with two windows showing; one presenting the scan matrix with alphabet and computer commands, and the other presenting the last five lines of text being written. Separate command provide the option of viewing the entire document at once. Program provides other word processing functions like move and copy blocks of text, search and replace, delete or other disk operations.

Price includes right to trade program in for upgraded versions for a small fee. Program is not copy-protected and users may copy for their own personal use. Versions of Joywriter for the Apple and IBM computers are in final stages of development and should be available shortly. Contact manufacturer for information. System requires 64K of memory and a printer if hard copy is desired.

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**Product Name:** Kid Talk

**Vendor:** First Byte, Inc.

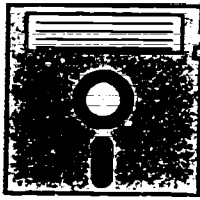
**Computer:** Apple Macintosh, Atari ST family,  
Commodore Amiga

**Manual Form:** Printed

**Cost:** \$49.95 - \$79.95

Kid Talk is a basic word processor program for the Macintosh that provides unlimited text to speech capabilities. The program speaks written input on line either by letter, word or by sentence. Program is intended for use by grade levels 1-6. Users control volume, rate and pitch from the menu.

Kid Talk provides male or female voice output through Smooth Talker software, also by First Byte (separate entry). Contact manufacturer for details. Price varies by type of computer used: the Atari version is \$49.95, the Amiga version is \$59.95, and the Macintosh version is \$79.95.



**Product Name:** Large Print Word Processor

**Vendor:** Bayman, Benjamin

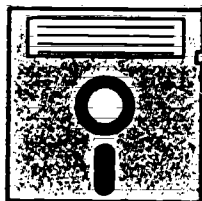
**Computer:** Commodore 64

**Manual Form:** Printed

**Cost:** \$15.00

This program functions like an ordinary word processor, except that as keys are pressed the characters that appear on the screen are large and of high contrast. The white characters on a black background are approximately 1" high, 3/4" wide, with a 3/4" space between the characters. The program is on a cartridge that plugs into the back of the Commodore 64. The program becomes active as soon as the computer is turned on.

If the user also has a disk or tape drive, then the program can store text, or read from disk or tape. Conversely, the system can be used as a reading machine, converting text from disk or tape to large characters on the monitor screen, under the control of the user. The developer proposes this as a low-cost system, requiring the computer (about \$140.00), a printer (about \$150.00), and the cartridge (about \$15.00 for the hardware). Contact the developer for further details.



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**Product Name:** Large Type

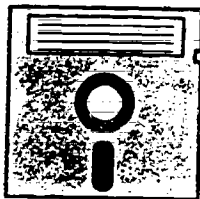
**Vendor:** National Institute for Rehabilitation Engineering

**Computer:** IBM PC family, TRS-80 Model I, TRS-80 Model III, TRS-80 Model IV

**Manual Form:** Printed

**Cost:** \$19.95 - \$29.95

Large Type is a large print word processing program for Tandy and IBM computers. Large Type displays large characters on the computer screen at all times, and text may be printed out in standard size or large type. As a 32-character line is entered, it may be edited and reformatted before it is printed. Large Type is not stored in the computer's memory, and does not limit the amount of text that may be generated.



**Product Name:** Leo's 'Lectric Paintbrush

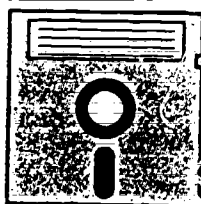
**Vendor:** Dunamis, Inc.

**Computer:** Atari 400, Atari 800, Commodore 64

**Manual Form:** Printed

**Cost:** \$29.95

Leo's 'Lectric Paintbrush is a graphics program that uses the PowerPad (see entry). The program allows user to create multi-colored electronic finger painting, that can be modified. Drawings can be stored to disk for later retrieval and display. Versions of this program are available for the Commodore 64, the Atari 400, and the Atari 800.



**Product Name:** Lister Talker

**Vendor:** CiderWare

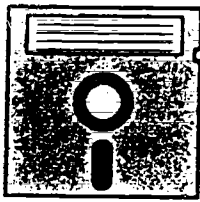
**Computer:** Apple II family

**Manual Form:** Braille/Tactile, Electronic, Printed

**Cost:** \$129.00

Lister Talker is a voice output database program for the Apple II family. The number of records and the size of the fields in each record is limited by disk space and computer memory. Printed output may be arranged to suit the user's specifications. Lister Talker offers voice output for all on-screen functions.

The Echo II voice synthesizer is required to operate Lister Talker.



**Product Name:** LoVE

**Vendor:** Finally Software

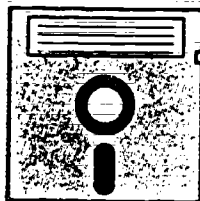
**Computer:** Apple Macintosh

**Manual Form:** Audiotape, Printed

**Cost:** \$149.95

LoVE (Low Vision Editor) is a word processing program for the Macintosh with both large type and speech output. Text can be read back, saying each letter, word, sentence, or the entire document. Options are controlled through pull-down menus or command keys. The user controls speed and pitch. Speech synthesis is a standard available feature of the Macintosh; no external synthesizer is required. Written characters can be expanded to 2 inches on the regular Macintosh screen.

With purchase of an optional adapter that is attached to the Macintosh, characters can be enlarged up to 12 inches on a 23 inch TV or monitor. The adapter costs \$899.00. Monitors and wall projection systems are also available.



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**Product Name:** Mac-Apple Communication Aid

**Vendor:** Computers to Help People, Inc.

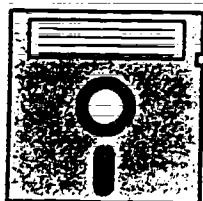
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$45.00

The Mac-Apple Communication Aid is a communication & writing program that may be controlled by switches or an expanded, mini, or standard keyboard. The user may perform simple text editing and calculation functions with Mac-Apple, and compile stored words, phrases and sentences and select them later. Mac-Apple automatically places two spaces at the end of a sentence, and capitalizes the next word entered. Also included in Mac-Apple are several programs that may be used to train users in switch input, and word and number recognition.

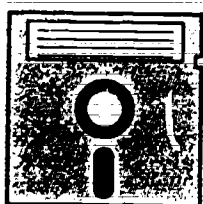
This program runs on the Apple II computer, but does not function with the Macintosh computer, despite the name.



**Product Name:** Magic Cymbals  
**Vendor:** Schneier Communication Unit  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$125.00

Magic Cymbals is a program designed for use as a "vocal" communication system for non-speaking pre- or non-reading individuals. Semantically organized pictographic symbols appear on the screen and are selected by single switch scanning. Single word utterances or whole phrases constructed from the symbols are spoken by a speech synthesizer (not included). This program is user alterable.

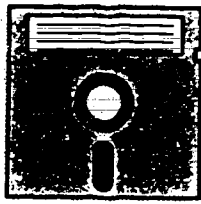
An Echo II or Cricket speech synthesizer compatible with the computer used is required. The Apple IIe version requires an extended 80-column card.



**Product Name:** Magnicomp  
**Vendor:** Elayo Americas, Inc.  
**Computer:** Apple II family  
**Manual Form:** Audiotape, Printed  
**Cost:** \$295.00

Magnicomp is a program that magnifies the text on the screen of an Apple II computer. Magnicomp allows the user to run any program on the computer with a choice of text magnification of two times or four times normal size. Magnicomp occupies one disk drive and 34K of memory while in use. Magnicomp will not operate with commercial software; it will only magnify what the user enters into the computer. Magnicomp comes with a master disk with reference manual, a backup disk, and an instructional audio cassette.





**Product Name:** Message Maker

**Vendor:** Communication Enhancement Clinic

**Computer:** Apple II family

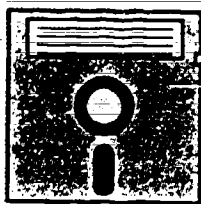
**Manual Form:** Printed

**Cost:** \$50.00 - \$75.00

Message Maker is a communication program designed to communicate words and phrases with a minimum of keystrokes or switch closures. Message Maker maintains an alphabetical list of words and stores phrases alphabetically as well. Pre-defined words, phrases, and directly entered text may be mixed in any combination to form messages. The program allows up to 20,000 total characters of words or phrases to be stored. Messages of up to 200 characters each may be printed, spoken and/or saved.

Input is made to Message Maker via direct selection from the Apple keyboard or with a single switch; the keyboard version is \$50.00 and the switch version is \$75.00. Output may be printed, or spoken if used with the Echo, Cricket, or external speech synthesizers.

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**Product Name:** Micro Braille

**Vendor:** Micro Engineering

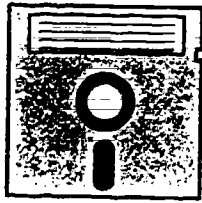
**Computer:** IBM PC family, IBM PC jr

**Manual Form:** Printed

**Cost:** \$125.00

Micro Braille is a braille word processing program for the IBM-PC for sighted transcribers. Used with the right hardware (see below), Micro Braille will display 25 lines (a full page) of braille characters on the computer's monitor. Input to the program is typed and the screen displays braille dots corresponding to the letters. Besides usual word processing features (including page numbering and running heads), braille page breaks (a line of hyphens) and braille guide dots can be added.

Though it does not require a color monitor, Micro Braille does require a color graphics adapter board. A standard 200 line monochrome monitor will work; an IBM 360 line monitor will not work. Micro Braille will interface with various braille embossers accepting serial input. Contact manufacturer for details.



**Product Name:** Micro Illustrator

**Vendor:** Dunamis, Inc.

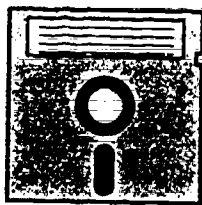
**Computer:** Apple II family, Atari 400, Atari 800

**Manual Form:** Printed

**Cost:** \$49.95

MicroIllustrator is a graphics program that operates by simple touch commands. Users can create, revise, adapt, and combine pictures, designs, diagrams, colors, and textures. Designs can also be mixed, expanded or reduced. All drawings can be stored to disk and retrieved for later display or modification.

Requires use of PowerPad (see entry); contact Dunamis for details.



**Product Name:** Morser

**Vendor:** Rehab Technology, Inc.

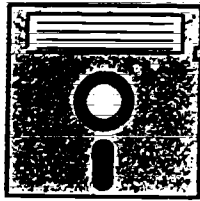
**Computer:** TRS-80 Color

**Manual Form:** Printed

**Cost:** \$89.95

Morser is a program which allows the TRS-80 Color Computer to be used as a word processor with single switch morse code input. The word processing functions include the ability to enter text, clear the screen, erase single characters, and insert characters. The speed of Morse code input can be adjusted by the user, and changed at any time.

In addition to the program and the computer, the user will need a single switch, a computer monitor (or TV set), a printer if desired, and various connectors (all extra).



**Product Name:** Multi-Scan

**Vendor:** Words+, Inc.

**Computer:** Apple II family, IBM PC family,  
IBM PC jr

**Manual Form:** Printed

**Cost:** \$80.00

Multi-Scan is a program that allows the screen of the computer to be used as a scanning communication aid. The instructor designs a grid of communication symbols on a sheet of transparent plastic and places it on the computer screen. Through a system of menus, the instructor selects the number of scanning positions, the scanning speed, and, if desired, the word or phrase that will be spoken by a speech synthesizer when a particular selection is made. A lighted area on the screen moves through the positions on the grid, and the user makes the selection by activating a single switch.

A Personal Speech System (see entry, Votrax) and the necessary adaptive hardware is required to use Multi-Scan with voice output.



**Product Name:** MultiScribe

**Vendor:** Speech Enterprises

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$59.95

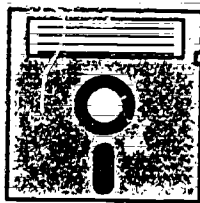
MultiScribe is a word processing program that allows the Apple IIe and IIc program to function similarly to Macintosh MacWrite. The program allows enlarged print capabilities of various sizes up to 3" in height, selected by options in menus for type font, character size and style. Text can be entered with the keyboard or mouse, and the program menus approximate a 40-column size. Other word processing capabilities include four print modes, full text editing options, and ProDOS file handling functions.

MultiScribe is not speech-compatible, but it has operated successfully with the Adaptive Firmware Card and Unicorn Keyboard (see other entries). The program was developed primarily for creating large print heading rather than specifically suited for persons with disability; extended use requires frequent saving to disk of large print documents longer than 2-3 pages. Contact manufacturer for details.



**Product Name:** Peachy Writer Bold  
**Vendor:** Cross Educational Software  
**Computer:** Apple II family  
**Manual Form:** Printed  
**Cost:** \$24.95

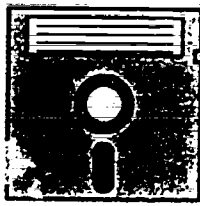
Peachy Writer Bold is a line-oriented text editor designed specifically for visually impaired users. Letters on screen are large, double sized, and 20 letters fit on a single line. The lines are numbered, and the screen can display up to 12 lines at once. Input to the program is through the computer keyboard. Full editing functions are provided for the Peachy Writer Bold program.



**Product Name:** Personal Money Management  
**Vendor:** Computer Users of America  
**Computer:** IBM PC family  
**Manual Form:** Audiotape, Printed  
**Cost:** \$20.00

Personal Money Management is one of seven software packages that utilize synthesized speech available from Computer Users of America. It is a two-fold program that handles income and expenses. Income is entered and can be sorted by item name or month, totalled for an item or a month. A report can be printed and entries examined. The same options are available when expenses are entered. When the program first runs, the user is prompted as to the last expense number that was used.

The Echo PC speech synthesizer is required.



**Product Name:** Picture Communication

**Vendor:** ComputAbility Corporation

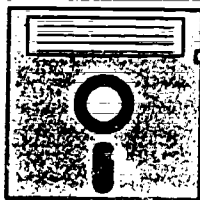
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$115.00 - \$200.00

Picture Communication is a communication program that presents vocabulary on the screen sixteen pictures at a time. The user may choose from pictogram vocabulary sets. Selections are made via row-and-column scanning. Selections are displayed at the bottom of the screen and spoken through an Echo II speech synthesizer.

Picture Communication is available with child and adult vocabulary levels, and accepting single, dual, or joystick input. A speech synthesizer is required.



**Product Name:** Prompt-Writer

**Vendor:** Syn-Talk Systems and Services

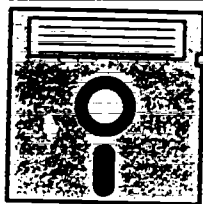
**Computer:** IBM PC AT, IBM PC family

**Manual Form:** Printed

**Cost:** \$770.00 - \$1500.00

Prompt-Writer is a hardware and software package for word processing with voice output. It consists of a software program, a KeyTronics 5151 keyboard, and a Votrax speech synthesizer. Options in Prompt-Writer's program are always given in the form of menus, and actions such as cursor movement are executed with function keys (the KeyTronic board has 40 of them) rather than CONTROL-key combinations. The cursor is moved around the text by the paragraph, the word, or the punctuation mark. The program has only one read-back key, and it depends upon which mode the user is in what is read back when the key is pressed. Text can be read with or without punctuation. Pressing an "identify" key causes function keys to speak their function rather than execute it. "Audible Windowing" allows the user to move back and forth between up to four files at once.

Custom configuration to any printer is included in the Prompt-Writer software price; \$770 includes the software and configuration services only, and \$1500.00 includes the entire hardware, software, and configuration package.



**Product Name:** ProWORDS

**Vendor:** MicroTalk Software

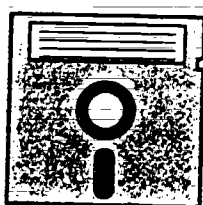
**Computer:** Apple IIc, Apple IIe

**Manual Form:** Electronic, Printed

**Cost:** \$195.00

ProWORDS is a talking word processing program for the Apple II's. ProWORDS does automatic formatting of text, or the user can make use of such formatting capabilities as changing margins, pagination, paragraph indentation, multiple line spacing, etc. The program reads screen content aloud when the cursor is moved over text. Text can be spoken by line, word, or letter. Capital letters are spoken in a raised pitch, and carriage returns are signalled by a tone. ProWORDS offers the option of having each keystroke spoken as it is entered.

128K of RAM is required to run ProWORDS. A Cricket speech synthesizer is required for the Apple IIc, an Echo II or Echo+ for the IIe. ProWORDS is compatible with most printers, and is not copy protected.



**Product Name:** Quick Talk

**Vendor:** Schneier Communication Unit

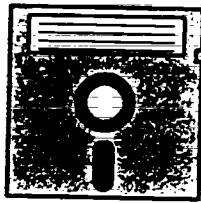
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$45.00

Quick Talk is a program that allows an Apple computer to function as an electronic communication aid. The user (or an assistant) types in the desired spoken phrases on the keyboard, and associates them with short letter or number codes. Thereafter when a code is entered on the keyboard, a speech synthesizer will speak the phrase assigned to that code. Quick Talk can also be used to auto-dial phone numbers, if the computer used is equipped for a modem.

A speech synthesizer compatible with the computer used is required in order to operate Quick Talk. The computer must be equipped for a modem in order to use the auto-dial function.



**Product Name:** Rapsheet

**Vendor:** BAUD

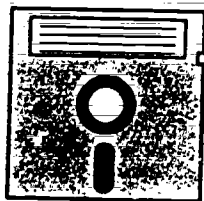
**Computer:** Apple II family, IBM PC family

**Manual Form:** Electronic, Printed

**Cost:** \$7.50 or \$35.00

Rapsheet is a spreadsheet program designed to work with popular speech synthesizers which is being made available as "shareware". It is described as a simple but functional program. It can hold up to 132 labels, constants, and formulas in its six-column by 22-row matrix. Special voice features allow columns to be read vertically as well as reviewing individual rows or cell contents.

The Apple version of Rapsheet requires an 80-column Apple IIe or IIc and the Echo + or Cricket speech synthesizer. The IBM-PC version works with Screen-Talk and the PC Talking Program with a speech synthesizer. Rapsheet is available from BAUD, a nation-wide user's group for talking computer users for \$7.50. The program is also available from the developer for \$35.00, which includes a print copy of the manual and a 90-minute audio cassette tutorial. For this option, contact Bill Grimm, P.O. Box 10367, Fort Wayne, IN 46852. The BAUD address/phone will change in October, 1986. If unable to contact BAUD, contact Bill Grimm for new location.



**Product Name:** RIC Easy Talker

**Vendor:** Rehabilitation Institute of Chicago

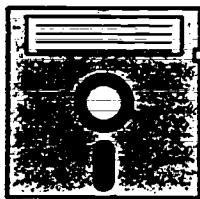
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$135.00

RIC Easy Talker is an auditory scanning program designed for individuals who have difficulty with independently expressing basic needs, feelings, and/or ideas via oral speech or written communication. The RIC Easy Talker features an auditory scanning alphanumeric matrix display. Speed of the cursor is user-adjustable. The user can control word/phrase/sentence memory storage and retrieval capabilities. There is quick retrieval of "emergency" or frequently used messages. A utility program allows keyboard entry of vocabulary/messages into memory. Speech output and print output are available. The program includes editing capabilities for written communication.

A switch interface and Votrax Personal Speech System is needed for operation of program (extra). Optional printer is recommended for written output.



**Product Name:** Say It

**Vendor:** Schneier Communication Unit

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Say It is a program that allows an Apple computer to be used as a scanning communication aid. The program presents menus on the screen and reads off the options (words or phrases) in a low tone of voice. When the desired phrase is reached, the user activates a single switch, and a speech synthesizer speaks the phrase in a louder tone of voice ("classroom" level). Ability to use the keyboard is required in order to build the lexicon of phrases. Output from Say It may be printed as well, if the computer is so equipped.

To operate Say It, a speech synthesizer compatible with the computer used is required.



**Product Name:** Sentence-Scan

**Vendor:** Computers to Help People, Inc.

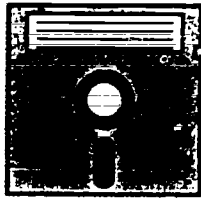
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$25.00

Sentence-Scan is a communication program that accepts input from the computer keyboard, or a single or dual switch. A teacher or parent may enter up to twenty lists of words which may be selected by the user. Word lists are displayed in large type on the screen. The user selects the desired words from these lists. Selections may be printed or spoken through a voice synthesizer. Scanning delay, audible feedback when a selection is made, automatic shift, and four selection modes are provided.





**Product Name:** Speak Up

**Vendor:** Laureate Learning Systems, Inc.

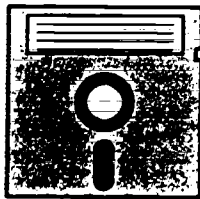
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$95.00

Speak Up is a program that allows an Apple II computer to be used as a scanning communication aid. Words and phrases and their pronunciations can be designated and stored in a "dictionary" for later use. The dictionary comes with 349 pre-programmed words. Words and phrases can then be recalled on the screen and spoken with a speech synthesizer.

An Echo II or Cricket speech synthesizer is required to use Speak Up. An additional dictionary of 1500 words is available (extra, requires one additional disk drive). Speak Up can be used in conjunction with Fast Access Scan Talker.



**Product Name:** Speak-A-Label

**Vendor:** Computer Users of America

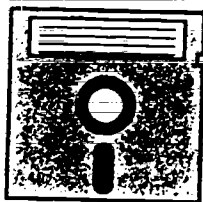
**Computer:** IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$20.00

Speak-A-Label is a voice output mailing list that stores 500 names and addresses. More than one file name may be used, allowing for multiple, separate lists. Names and addresses in the lists may be edited, deleted, sorted, and printed in one of four ways. Addresses may be printed on an interactive "yes"/"no" basis; a specific number of labels for a particular name may be printed; The entire list may be printed, or a report may be printed in alphabetic order.

For the IBM version, an Echo PC is required.



**Product Name:** Speech Writer

**Vendor:** Computer Users of America

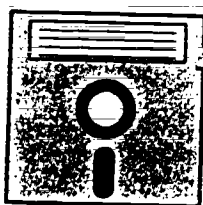
**Computer:** IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$75.00

Speech Writer is a talking word processing program that allows 45 single spaced pages per file. Files can be chained in printing, so document length is not practically limited. Speech Writer offers word wrap, line numbers, spoken punctuation marks, numbers, and special symbols, and full editing features. Three command help screens are provided. With the voice output feature, the user may know if the caps lock is on or off, read back a current line or a series of sequential lines, read the current word, or spell a line. The space bar creates one audio tone and reaching the right margin produces a different tone. Capital letters and blank spaces are also indicated by Speech Writer.

An Echo PC is required to run Speech Writer. The program is available in both Basic and Assembler language.



**Product Name:** Super Cranmer Graphics Package

**Vendor:** Raised Dot Computing

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$200.00

The Super Cranmer Graphics Package software is a "screen dump" program which will create a dot drawing of any image drawn on the Apple screen; each lit pixel on the Apple screen becomes a dot on the braille paper.

Graphic material can first be drawn on the Power Pad and saved as a file on disk using MicroIllustrator. When this file is loaded into the Apple, the screen image can be sent to the Cranmer Modified Perkins Brailier using the Super Cranmer Graphics Package. This software/hardware combination allows the creation of graphic materials for the visually impaired in less time and with greater ease.



**Product Name:** Super Shape Draw & Animate

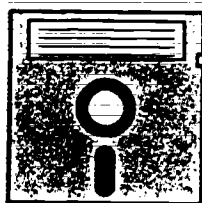
**Vendor:** Titania Publications

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$34.95

Super Shape Draw & Animate is a drawing program that utilizes a vector shape-creating utility to provide horizontal, vertical, and diagonal plotting moves. Users can define number of shapes in a table, view and edit them, or animate shapes with special stop action sequences. Drawings can be saved to disk and retrieved for later viewing or modification.



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**Product Name:** Talk II

**Vendor:** Rushakoff, G.E.

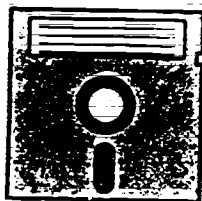
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$90.00

Talk II is a speech output communication program for the Apple II series. Talk II stores up to 4,000 words and phrases and 400 sentences. All words, phrases and sentences may be changed at any time by the user. Messages may be spoken through a speech synthesizer or printed on an optional printer. All messages may also be stored on disk for future reference.

One disk drive and a speech synthesizer (Echo II, see entry) and/or printer are required.



**Product Name:** Talker

**Vendor:** Finally Software

**Computer:** , Apple Macintosh,  
Commodore Amiga

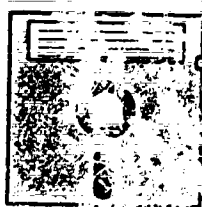
**Manual Form:** Printed

**Cost:** \$69.96

Talker is a word processor that reads text aloud as the user types, by the word, letter, or sentence. The program can also be used to read back the entire document or selected portions. All versions work with the computer's mouse, which can be used to highlight the text to be read. Speech can be adjusted by volume, pitch, tone, and speaking rate. Users can choose a male or female voice. The Macintosh and Atari ST versions incorporate Smooth Talker, a software speech synthesizer by First Byte. The Amiga version takes advantage of the Amiga's built-in speech synthesis. Speech characteristics of a particular file remain in memory when the file is stored, so they are automatically set for use the next time the file is called.

Talker can be operated by pull-down menus, typed commands, or function keys. The program includes a dictionary feature that allows users to teach the program unusual or differently pronounced words. Talker can read standard ASCII files from other word processing programs.

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**Product Name:** Talking Aid

**Vendor:** Microcomputer Systems for the  
Handicapped

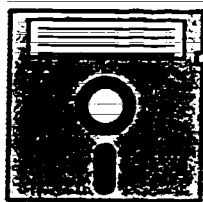
**Computer:** Atari, Commodore 64

**Manual Form:** Printed

**Cost:** \$20.00

Talking Aid is a communication program designed to increase efficiency of screen-based interaction. The system displays user pre-programmed phrases or sentences on the computer screen and a scanning method is used to select words. Word stored are organized into categories and a category is recalled by selecting a label (such as phrases, places, people, ABC's) and displaying words within. System includes recommendations for customizing the words and phrases for individual needs.

System requires two switches or controllers and a T.V. or monitor.



**Product Name:** Talking BlissApple

**Vendor:** Trace Center

**Computer:** Apple II+, Apple IIe

**Manual Form:** Printed

**Cost:** \$37.10

The Talking BlissApple program is a Blissymbol communication program for the Apple II family of computers. Input for the Talking BlissApple may come from a variety of sources, including a single switch, the standard keyboard, or many communication aids. The program contains a library of 1,400 Blissymbols, and additional symbols may be added to suit the user's individual needs. At the user's command, the Talking BlissApple may display, speak, and/or print symbol messages and corresponding English messages.

One disk drive and a monitor are required. Votrax speech synthesizer, printer, and serial/parallel board for communication with other devices are optional. The source code for the Talking BlissApple is available on five disks. Interested parties must have the FORTH 1.7 language in order to modify the source code.



**Product Name:** Talking Sensible Speller

**Vendor:** Computer Aids Corporation

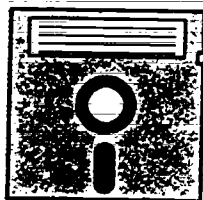
**Computer:** Apple II family

**Manual Form:** Audiotape, Printed

**Cost:** \$150.00

An enhanced version of the spell checker Sensible Speller, this program allows visually impaired persons to hear text spelled, and features an 80,000 word dictionary from Random House. Options include: a tally of words in the document, a listing of all words, a listing of unique words, and a listing of misspelled words (these may be sent to a printer). Misspelled words may be spelled in text individually or globally, and the program adds new words to the dictionary at the end of the run.

The system works with WORD-TALK files. An Echo II or Cricket speech synthesizer is required to operate the system.



**Product Name:** Talking Transcend II

**Vendor:** Speech Enterprises

**Computer:** Apple II family

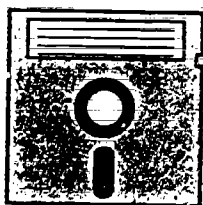
**Manual Form:** Printed

**Cost:** \$195.00

Talking Transcend II is a voice output conversion program. This telecommunications program is an intelligent terminal. Features include: upload and download, verify file transfers, capture and printer buffer.

An Echo II or Echo+ is required for voice output.

Industry standard telecommunications protocol, menu operated and runs from an internal file, keyboard and log-on macros.



**Product Name:** Talking Wheelchair

**Vendor:** Computers to Help People, Inc.

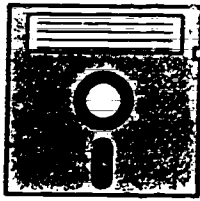
**Computer:** Atari 400, Atari 800

**Manual Form:** Printed

**Cost:** \$15.00

Talking Wheelchair is a portable communication system with voice output based on the Atari 400 or 800 computer and designed to be mounted into a wheelchair for use. Two programs are provided. SPEAK2JOE contains ten sets of ten pre-programmed sentences, each of which the user can retrieve with a two-number code. The second program, WORDSJOE, offers a menu from which the user may select any of 35 screens of words, each screen organized alphabetically or by topic. All selections are made with single keystrokes and do not require the use of the RETURN key. Once a message is composed, it can be spoken through a speech synthesizer.

The two programs mentioned above are available from the manufacturer listed, as is a complete instruction manual on putting the system together. The person putting the system together must purchase the parts and assemble them; the wheelchair laptray must be custom made for the user. Computers to Help People, Inc. estimates the total cost of the project at about \$1,400.



**Product Name:** Talking Word Board

**Vendor:** Adaptive Peripherals, Inc.

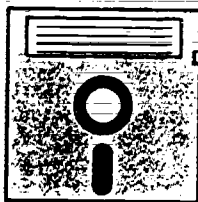
**Computer:** Apple II family

**Manual Form:** Electronic

**Cost:** Complimentary

The Talking Word Board allows the Unicorn Keyboard to be converted into a "talking" communication board. The Talking Word Board is non-transparent. This means it may only be used by itself, not with other programs. The text being spoken will appear on the monitor screen, but it is recommended that the monitor be turned off when the program is being used to facilitate eye contact between the user and the communication partner. Up to nine different levels may be defined for any one customized file.

The Talking Word Board is included with new Unicorn Keyboards. It may also be copied from anyone who has the program, or Adaptive Peripherals will send a complimentary set (with Talking Unicorn and Talking Scanner) upon request.



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**Product Name:** Talking Writer

**Vendor:** Cross Educational Software

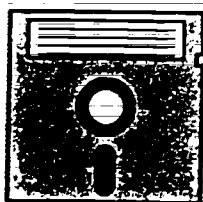
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$49.95

Talking Writer is a voice output word processing program. Letters or whole words may be spoken as they appear on the screen. Punctuation and backspaces are also spoken. Text may be printed out in characters double the normal size. Text can be entered, inserted, deleted, and edited.

The Echo + is required to run Talking Writer.



**Product Name:** Tally-Talk

**Vendor:** Speech Enterprises

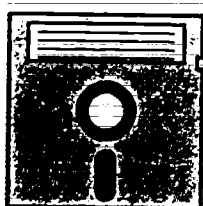
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$175.00 - \$200.00

Tally-Talk is a simplified version of a spreadsheet program compatible with speech and/or braille output. The program allows incorporation of formulas, and can be used for personal or small business management to manage accounts receivable and payable, billing, inventory, and other bills or calculations.

Tally-Talk is compatible with the Ohtsuki BT-5000 and Cranmer Modified Braille Embosser (see separate entries) for optional braille output. For speech output, an Echo II, Echo+, or Cricket speech synthesizer is required; contact manufacturer for details.



**Product Name:** Tele-Talk

**Vendor:** Computer Users of America

**Computer:** IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$15.00

Tele-Talk is a phone and address file program with voice output capabilities. Tele-Talk holds up to 300 names, addresses, phone numbers and memos and information may be looked up by whole name or part of a name. A series of persons having the same last name may also be called up. The screen display may then be spoken word by word, or spelled. Addresses may be added or deleted at any time.

An Echo PC speech synthesizer is required.





**Product Name:** Textalk

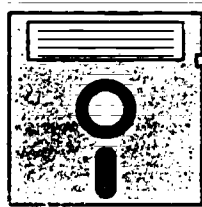
**Vendor:** Assembly Corner

**Computer:** Apple Macintosh

**Manual Form:** Printed

**Cost:** \$150.00

Textalk is a Macintosh word processor for the visually impaired that features three sizes of magnified type and speech generation. With Textalk, the user can instruct the program to read any part of the text aloud, in a voice adjustable in both speed and pitch. The program is also capable of reading text as it is typed. Textalk features two windows and a memory-resident desk accessory that enables the user to open a magnifying window in another application.



**Product Name:** Textwriter 2.0

**Vendor:** Speech Enterprises

**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$75.00

Text Writer 2.0 is a talking word processor program for the Apple IIe or IIc computers. The program includes a range of editing functions, printing options, text and disk management options, and can be used without the speech option if needed. The system provides voicing for keystrokes, tab and punctuation marks, and built-in speech controls.

The Textwriter requires an Echo II, Echo+, or Cricket speech synthesizer for operation. The program is not copy protected and is compatible with Disk Quik (contact manufacturer for details).



**Product Name:** Touch & Speak

**Vendor:** Communication Enhancement Clinic

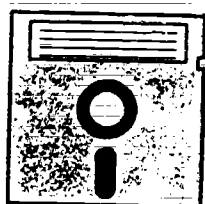
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$75.00

Touch & Speak is a communication program designed for keyboard, expanded keyboard, or membrane keyboard users. Pressing a key or a desired location on the keyboard immediately speaks a stored word or phrase. Up to 128 words or phrases may be stored on each of five levels. Touch & Speak may also be used with any symbol system that the user may require.

Input is made to Touch & Speak via the Apple keyboard or an expanded keyboard. Output is spoken through a voice synthesizer.



**Product Name:** TRAX PAX Talking Checkbook

**Vendor:** SOFT-X

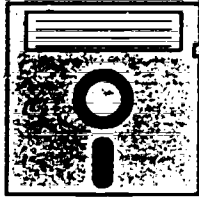
**Computer:** Apple II family

**Manual Form:** Audiotape, Braille/Tactile, Printed

**Cost:** \$60.00

TRAX PAX Checkbook is designed as a talking means of maintaining checking or charge accounts including three functions: storage and retrieval of account information, check printing, and addressing the envelopes. There are two ways provided to search through account entries, the Search/Edit function or the Search/List function. Codes can be used to indicate all items of a certain type. There is a "macro" option that allows the user to save keystrokes by entering an abbreviation of up to three characters. How well the check printing and envelope addressing functions work depends on the type of printer. Contact the manufacturer for detail.

TRAX PAX Checkbook runs on the Apple IIe with an extended 80 column card using an Echo II or Echo +, or the Apple IIc using the Cricket. Because it is screen oriented, it can also be used by sighted persons (with or without the speech synthesizer). Checkbook can be purchased alone for \$60.00 or together with TRAX PAX File Box (see separate entry) for \$75.00.



**Product Name:** TRAX PAX Talking File Box

**Vendor:** SOFT-X

**Computer:** Apple II family

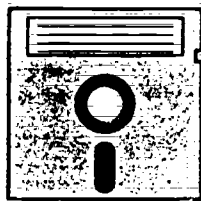
**Manual Form:** Audiotape, Braille/ Tactile, Printed

**Cost:** \$25.00

TRAX PAX Talking File Box is a filing type program with synthesized speech output. The user creates files, and each record in a file will contain up to six lines of information. The most common use for the program would be to store name and address files. The user can scan through files for an item, make printouts (page or label), address envelopes (including return address or not), and print many identical labels. Useful utilities included on the disk are: Type to Printer, Copy Disks, and Initialize Data Disks. The program is menu-driven. The title of each menu is announced and the computer then beeps and waits for the user to make a choice. Pressing the spacebar will allow the user to hear the whole menu read.

TRAX PAX File Box runs on the Apple IIe with extended 80 column card and Echo II or Echo + speech synthesizer, or the Apple IIc using the Cricket. Because it is screen oriented, it can be used by sighted persons also (without the speech synthesizer). File Box can be purchased alone for \$25.00 or together with TRAX PAX Checkbook (see separate entry) for \$75.00.

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**Product Name:** Type & Speak

**Vendor:** Communication Enhancement Clinic

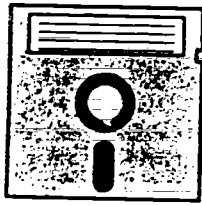
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$50.00

Type & Speak is a voice output program for the Apple II. The user may choose to have each letter spoken as it is typed, or have an entire message spoken at once. Text may be modified before or after it is spoken, or it may be spoken repeatedly. Type & Speak holds only one message in memory at a time, and does not store text for future retrieval.

Input is made to Type & Speak via the Apple keyboard or a single switch scanning array. Output may be sent to a voice synthesizer or a printer.



**Product Name:** Ultimate Banker

**Vendor:** Speech Enterprises

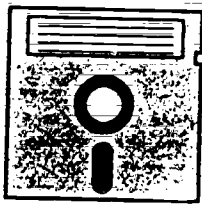
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Ultimate Banker is a voice output finance management program for a 128K Apple IIe or IIc with ProDOS capabilities. The system can facilitate banking transactions or provide checkwriting formats, with different menus to suit skill levels. Input to the program is provided through the computer keyboard.

The system requires an Echo or Cricket speech synthesizer to operate.



**Product Name:** Ultimate File Cabinet

**Vendor:** Speech Enterprises

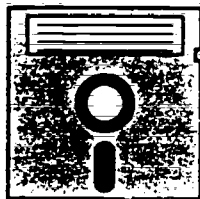
**Computer:** Apple II family

**Manual Form:** Printed

**Cost:** \$40.00

Ultimate File Cabinet is a talking database management program with multiple search capabilities for a 128K Apple IIe or IIC. The system provides different menus for different skill levels. Input to the program is provided through the computer keyboard.

Ultimate File Cabinet uses Apple ProDOS and requires use of an Echo or Cricket speech synthesizer.



**Product Name:** VERBal STAR

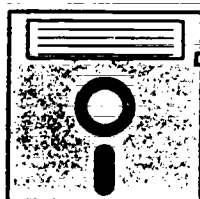
**Vendor:** Computer Conversations

**Computer:** IBM PC family

**Manual Form:** Printed

**Cost:** \$99.95

VERBal STAR is simple to use, yet full-featured word processing program with synthesized speech output of screen information. Text can be spoken letter by letter as it is entered. Text which has been entered can be read back by line or by section, for content or for detailed proofreading with spelling, punctuation, and capitalization turned on. When a command key is pressed, the program tells the user what is happening. VERBal STAR can be used with most voice synthesizers. Contact the manufacturer for more information.



**Product Name:** VIC-20 Scanner

**Vendor:** Courage Center

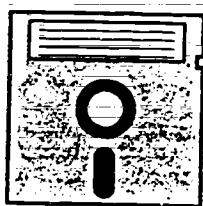
**Computer:** VIC 20

**Manual Form:** Printed

**Cost:** \$20.00

VIC-20 Scanner is a program that presents the user with menus of letters, words and phrases on the computer screen. The user creates messages by scanning the array and selecting characters using the fire button on a joystick or the F1 key on the keyboard. The scanning cursor is an underline character.

A joystick for the computer is required in order to operate the VIC-20 Scanner.



**Product Name:** Word Communication

**Vendor:** ComputAbility Corporation

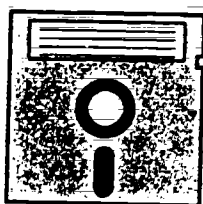
**Computer:** Apple II family

**Manual Form:** Electronic, Printed

**Cost:** \$115.00 - \$200.00

Word Communication is a scanning communication program that accepts input from a single or dual switch, or a joystick. Selections may be made via timed sequential step scanning, sequential scanning, timed row/column scanning or row/column scanning. As words or letters are selected, messages form at the bottom of the screen. Input is printed at the bottom of the screen and spoken through an ECHO II speech synthesizer (extra).

Input may be made to Word Communication with a single or dual switch, or a joystick. The program comes with an interface box and adult or child vocabulary.



**Product Name:** Word-Talk

**Vendor:** Computer Aids Corporation

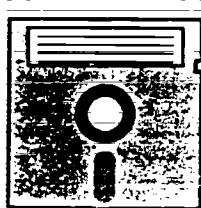
**Computer:** Apple II family, IBM PC family

**Manual Form:** Audiotape, Printed

**Cost:** \$195.00 - \$245.00

Word-Talk is a full-featured word processing program that offers synthesized speech output as well as screen display. Keys may be echoed as they are typed, or reviewed as letters, full words, lines, or complete screens. Entire documents may also be read from start to finish. Word-Talk uses the standard 80 column by 24 line display, and offers features such as cut and paste operations, simple insertions, re-formatting, block operations, search-and-replace operations, file merge, and import/export features. Speech may be momentarily silenced or turned off entirely at any time. Rate of speech may be set to any of three levels.

Word-Talk is compatible with most commercially available speech synthesizers as well as a variety of printers.



**Product Name:** X-10 Powerhouse Computer Interface

**Vendor:** X-10 (USA), Inc.

**Computer:** Apple IIc, Apple IIe

**Manual Form:** Printed

**Cost:** \$69.99 - \$79.99

X-10 Powerhouse Computer Interface is a system for remote appliance control using a microcomputer (not included). The system consists of a computer control panel that connects to the computer and a series of X-10 Control Modules (see entry for BSR X-10 System, X-10 (USA), Inc.) that control individual appliances, lamps, thermostats, etc. An image of a particular room appears on the computer monitor, and the user adds a symbol for each appliance to be controlled in that room. Once the image of the room is composed, and the appropriate appliances are plugged into their control modules in that room, the user may display the room on the computer screen and control the appliances with a joystick. The joystick may also be used to initially select the desired room.

Various types of control modules with various power ratings are available from the manufacturer. Cost of the system will vary depending on the number and type of controls desired. Contact manufacturer about size, weight, power source, and connector type.

# Index 1

## Products Listed by Function

*This index includes lists of products according to Function. Every product in the three books with a given function will appear in that list. Within each list products are arranged alphabetically. Following the product name in parentheses are the other functions (coded) assigned to that product.*

*For example, if you were looking for an aid for Conversation/Interaction and wanted to find an aid that could also perform word processing functions you would look through the Conversation/Interaction (CI) function list and note all of those products with the WP (word processing) code. You would then look at the product descriptions for the several entries meeting both of those needs and contact the manufacturers of those devices you felt best suited the client.*



## Index 1: Products Listed by FUNCTION

The following is the order of the Functions by which products in this index are listed:

Activities of Daily Living {AD}  
 Administration and Management {AM}  
 Alternate Display Systems Usable with All Software {TO}  
 Alternate Inputs Adaptable for Use with All Software (Transparent With) {TW}  
 Alternate Inputs Usable with All Software {TI}  
 Analysis and Reporting Software {AR}  
 Artificial Larynxes {AL}  
 Assessment (Evaluation) {AS}  
 Authoring Programs {AP}  
 Book/Paper Handling {BP}  
 Braille {BR}  
 Calculation/Math Aids {CN}  
 Call, Monitoring, and Memory Systems {CM}  
 Cognitive Rehabilitation {CR}  
 Conversation/Interaction {CI}  
 Database Management/Spreadsheets {DS}  
 Drawing {DR}  
 Early Skills (Pre-Reading) {ES}  
 Education, Training, and Therapy {ET}  
 Electronic Communication and Writing Aids {EA}  
 Environmental Controls {EC}  
 Games {GA}  
 IEP and IPP {IE}  
 Input Adapters for Computers {IA}  
 Input Devices Usable with Only Some Software {ID}  
 Keyboard Emulating Interfaces (Adapters Only) {KE}  
 Keyboarding Training Programs {KB}  
 Keyguards {KG}  
 Language Therapy/Development {LT}  
 Large Print Output {LP}  
 Later Skills (Includes Reading) {LS}  
 Lipreading (Speech Reading) {LR}  
 Modifications for Standard Keyboards {KM}  
 Mouse and Touch Pad Emulation {MT}  
 Non-Electronic Communication Aids {NA}  
 Other Software and Hardware Adaptations {OA}  
 Personal Tools or Aids (for Speaking, Writing, Drawing, Controlling, etc.) {PA}  
 Phone Control/Access {PC}  
 Pointing and Typing Aids {PT}  
 Portable Writing {PW}  
 Recreation {RE}  
 Screen (Display) to Voice {SV}  
 Signing {SI}  
 Speech Aids {SA}  
 Speech Therapy (not Language Therapy) {ST}  
 Telecommunication {TL}  
 Telecommunication Devices for the Deaf (TDD's) {TD}  
 Terminal Emulators (Special Only) {TE}  
 Training and Communication Initiation Aids {TR}  
 Vocational {VO}  
 Voice Amplifiers {VA}  
 Word Processing (Writing) {WP}

The following is a list of the Function codes which may appear in parentheses after items in this index:

AD Activities of Daily Living  
 AL Artificial Larynx  
 AM Administration or Management  
 AP Authoring Program  
 AR Analysis or Reporting Software  
 AS Assessment (Evaluation)  
 BD Braille Printer or Tactile Display (Component)  
 BP Book/Paper Handling  
 BR Braille  
 CI Conversation/Interaction  
 CM Call, Monitoring, or Memory System  
 CN Calculation/Math Aid  
 CR Cognitive Rehabilitation  
 DR Drawing  
 DS Database Management/Spreadsheet  
 EA Electronic Communication or Writing Aid  
 EC Environmental Control  
 ES Early Skills (Pre-Reading)  
 ET Education, Training, or Therapy  
 GA Game  
 IA Input Adapter for Computer  
 ID Input Device Usable with Only Some Software  
 IE IEP or IPP  
 KB Keyboarding Training Program  
 KE Keyboard Emulating Interface  
 KG Keyguard  
 KM Modification for Standard Keyboard  
 LP Large Print Output  
 LR Lipreading (Speech Reading)  
 LS Later Skills (Includes Reading)  
 LT Language Therapy/Development  
 MT Mouse or Touch Pad Emulation  
 NA Non-Electronic Communication Aid  
 OA Other Software or Hardware Adaptation  
 PA Personal Tool or Aid (for Speaking, Writing, Drawing, Controlling, etc.)  
 PC Phone Control/Access  
 PT Pointing or Typing Aid  
 PW Portable Writing  
 RE Recreation  
 SA Speech Aid  
 SI Signing  
 SS Speech Synthesizer  
 ST Speech Therapy (not Language Therapy)  
 SV Screen (Display) to Voice  
 SW Switch or Control  
 TD Telecommunication Device for the Deaf (TDD)  
 TE Terminal Emulator (Special Only)  
 TI Alternate Input Usable with All Software  
 TL Telecommunication  
 TO Alternate Display System Usable with All Software  
 TR Training or Communication Initiation Aid  
 TW Alternate Input Adaptable for Use with All Software (Transparent With)  
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 Communitree - First and Second (DS,PA) 3-314  
 Echo 2000 (CI,PC,TD) 1-90  
 Intele-Type (CI,PC,TD,WP) 1-96  
 Keynote (PA,PW,SV,TO,WP) 1-98  
 Lifestyle Personal Communicator (CI,CN,TD) 1-91  
 Minicom II (CI,PW,TD) 1-92  
 Personal Braille (BD,BR,TE) 3-109  
 Porta Printer Plus MP20 (CI,TD) 1-92  
 Porta Printer Plus MP20D (CI,PC,TD) 1-93  
 Porta Printer Plus MP40D (CI,PC,TD) 1-93  
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 SSI-220 Communicator (CI,TD) 1-95  
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 Superprint 100, 200, 400 (CI,PC,TD) 1-96  
 Talk Tone (CI,TD) 1-97  
 Talking Transcend II (PA) 3-340  
 TeleBraille (CI,PC,TD) 1-97  
 Telewriter (CI,TD,WP) 1-98  
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 COM 2000 (CI,PC,TL) 1-89  
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 Intele-Type (CI,PC,TL,WP) 1-96  
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 Minicom II (CI,PW,TL) 1-92  
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 SSI-240 Communicator (CI,TL) 1-96  
 Superprint 100, 200, 400 (CI,PC,TL) 1-96  
 Talk Tone (CI,TL) 1-97  
 TeleBraille (CI,PC,TL) 1-97  
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### Terminal Emulators (Special Only) {TE}

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 Clock Communicator (AS,CI,ET) 1-18  
 Com Board (AS,CI,ET) 1-19  
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 Delay Timer (AS,EC,ET) 1-21  
 Dial Scan (AS,CI,ET) 1-21  
 Dual Channel Latching Switch Interface (AS,EC,ET) 1-22  
 Dual Switch Latch and Timer (AS,EC,ET) 1-22  
 E-Tran Scanner (AS,CI,ET) 1-23  
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 SCANWOLF (CI,EA) 1-74  
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 Handset for Speech Amplification (PC,SA) 1-4  
 Rand Voice Amplifier (SA) 1-5  
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 BEX (BR,LP,PA,SV) 3-309  
 Cacti Word Processor (KM,PA) 3-311  
 CHPI Apple Tool Kit (BR,AM,PA,TL) 3-312  
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 Communicator (PA) 3-314  
 Computerized Enabling System (CI,EC,PA,PC) 3-315  
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 Intele-Type (CI,PC,T,DTL) 1-90  
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 Keynote (PA,PW,SV,T,LT) 3-88  
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 Large Type (LP,PA) 3-323  
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 LoVE (LP,PA,SV) 3-325  
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 Micro Braille (BR,PA) 3-327  
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 PACA (Portable Anticipatory Communication Aid) (CI,CN,EA,PW) 1-71  
 Phonics, Text, and Graphics (DR,ET,RE) 3-252  
 Prompt-Writer (KM,PA,SV) 3-331  
 ProWORDS (PA,SV) 3-332  
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 QuickWord (DS,KM,TI) 3-45  
 Small Talk (CI,CN,EA,PW,SV,T,LT) 1-75  
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 Talking Wheelchair (CI,G,PA,RE) 3-340  
 Talking Writer (ET,KB,LP,PA,SV) 3-341  
 Telewriter (CI,T,DTL) 1-98  
 Textalk (LP,PA,SV) 3-343  
 Textwriter 2.0 (PA,SV) 3-343  
 TIM (CI,EA,PW) 1-79  
 Touch Window (DR,DS,LD,RE) 3-65  
 Trine System (ACS) (CI,EA,PW,T,LT) 1-80  
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## Index 2

### Products Listed by Input/Output Feature

*This index includes lists of products (except switches) according to Input and Output Features considered useful in a search. Each list includes any product in the three books with that feature. Products are arranged alphabetically within each list. The function codes assigned to that product follow in parentheses. Switches are listed separately in Index 3.*

*For example, if you are looking for a word processing program with both large print and synthesized speech output, you would go to the list titled 'Output Display: Large Print'. As you look through the list you would note those products with the function codes WP (word processing) and SV (screen display to voice). By searching in this manner you would identify five programs that meet the function/feature criteria. You would then go to the individual product descriptions to check on the type of computer, age appropriateness, additional features, etc. Once the search has been narrowed, the manufacturer would be called for up-to-date information on the product.*

## Index 2: Products Listed by INPUT/OUTPUT FEATURE

The following is the order of the Features by which products in this index are listed:

Input Expand/Accel: Abbreviation Expansion {IEA}  
 Input Expand/Accel: Encoding (Chart or Memory Based) {IEE}  
 Input Expand/Accel: Levels or Pages {IEL}  
 Input Expand/Accel: Morse {IEM}  
 Input Expand/Accel: Predictive {IEP}

Input Method: Directed Scanning {IMX}  
 Input Method: Scanning {IMS}

Input Symbol System: Auditory Presentation (eg Auditory Scanning) {ISH}  
 Input Symbol System: Bliss Symbols {ISS}  
 Input Symbol System: Photos/Pictures/Line Drawings {ISP}  
 Input Symbol System: User Selectable Symbols {ISU}  
 Input Symbol System: Whole Words {ISW}

Input Type: Air (Sip/Puff) {ITA}  
 Input Type: Contact (Zero Pressure) {ITC}  
 Input Type: Eye Movement and Eye Gaze {ITE}  
 Input Type: Head Controlled {ITH}  
 Input Type: Joystick/Wobblestick {ITJ}  
 Input Type: Light Sensitive (Optical) {ITL}  
 Input Type: Noise (Sound or Vocalization) {ITN}  
 Input Type: OCR (Optical Character Recognition) {ITO}  
 Input Type: Pressure Sensitive {ITP}  
 Input Type: Speech Recognition {ITS}  
 Input Type: Wireless {ITW}

Output/Display: Braille Printer {ODB}  
 Output/Display: Deaf Baudot (for TDD's) {ODD}  
 Output/Display: Ideographic/Pictographic Symbols {ODI}  
 Output/Display: Large Print {ODL}  
 Output/Display: Modem (ASCII) {ODM}  
 Output/Display: Speech Output {ODS}  
 Output/Display: Tactile/Braille Display (Dynamic) {ODT}

Switch Inputs: Uses Analog Control {SIA}  
 Switch Inputs: Uses Dual Switch {SI2}  
 Switch Inputs: Uses Joystick (4 or 5 Switches) {SIJ}  
 Switch Inputs: Uses Keyboard (16 Switches and up) {SIK}  
 Switch Inputs: Uses Multiple Switches (3 to 15 Switches) {SIM}  
 Switch Inputs: Uses Single Switch {SI1}

Terminal Emulating Outputs {ODX}

The following is a list of the Function codes which may appear in parentheses after items in this index:

AD Activities of Daily Living  
 AL Artificial Larynx  
 AM Administration or Management  
 AP Authoring Program  
 AR Analysis or Reporting Software  
 AS Assessment (Evaluation)  
 BD Braille Printer or Tactile Display (Component)  
 BP Book/Paper Handling  
 BR Braille  
 CI Conversation/Interaction  
 CM Call, Monitoring, or Memory System  
 CN Calculation/Math Aid  
 CR Cognitive Rehabilitation  
 DR Drawing  
 DS Database Management/Spreadsheet  
 EA Electronic Communication or Writing Aid  
 EC Environmental Control  
 ES Early Skills (Pre-Reading)  
 ET Education, Training, or Therapy  
 GA Game  
 IA Input Adapter for Computer  
 ID Input Device Usable with Only Some Software  
 IE IEP or IPP  
 KB Keyboarding Training Program  
 KE Keyboard Emulating Interface  
 KG Keyguard  
 KM Modification for Standard Keyboard  
 LP Large Print Output  
 LR Lipreading (Speech Reading)  
 LS Later Skills (Includes Reading)  
 LT Language Therapy/Development  
 MT Mouse or Touch Pad Emulation  
 NA Non-Electronic Communication Aid  
 OA Other Software or Hardware Adaptation  
 PA Personal Tool or Aid (for Speaking, Writing, Drawing, Controlling, etc.)  
 PC Phone Control/Access  
 PT Pointing or Typing Aid  
 PW Portable Writing  
 RE Recreation  
 SA Speech Aid  
 SI Signing  
 SS Speech Synthesizer  
 ST Speech Therapy (not Language Therapy)  
 SV Screen (Display) to Voice  
 SW Switch or Control  
 TD Telecommunication Device for the Deaf (TDD)  
 TE Terminal Emulator (Special Only)  
 TI Alternate Input Usable with All Software  
 TL Telecommunication  
 TO Alternate Display System Usable with All Software  
 TR Training or Communication Initiation Aid  
 TW Alternate Input Adaptable for Use with All Software (Transparent With)  
 VA Voice Amplifier  
 VO Vocational  
 WP Word Processing (Writing)

**Input Expand/Accel: Abbreviation Expansion {IEA}**

AARON (CI,PA,WP) 3-307  
 ACES (AS,ET) 3-171  
 ACS Medicom Computer System (CI,EC,PC,TI,TJ) 3-23  
 Adaptive Firmware Card (IA,KE,KM,SW,TI) 3-24  
 EXPAND (TI,TW) 3-29  
 Express 3 (CI,EA,EC,PW,TI,TW) 1-65  
 EyeTyper Model 200 (CI,EA,EC,PC,PW,TI) 1-66  
 ICOMM (CI,EA,PW,TI,TW) 1-68  
 Keywords (KM,TI) 3-37  
 Lifestyle Personal Communicator (CI,CN,PC,TD,TJ) 1-91  
 Light Talker (CI,EA,EC,PW,TI,TW) 1-68  
 MacroWorks (KM) 3-14  
 PC AID (TI) 3-41  
 PC Serial AID (TI) 3-42  
 PhotoPAC/EvalPAC (AS,CI,EA,EC,ET,PW,TI,TW) 1-71  
 Portable Voice II (CI,EA,PW) 1-72  
 ProKey (KM) 3-17  
 ProTERM (SV,TE,TO) 3-94  
 QuickWord (DS,KM,TI,WP) 3-45  
 ScanPAC/Epson (CI,EA,EC,PW,TI,TW) 1-74  
 Smartkey (KM) 3-18  
 Software Simulations of Communication Prostheses (AS,CI,ET) 3-182  
 SpeechAid (CI,EA,PW,TI,TW) 1-76  
 SpeechPAC/Epson (CI,EA,EC,PW,TI,TW) 1-76  
 SuperKey (KM) 3-19  
 Talking 100 Communicator (CI,EA) 1-78  
 Touch Talker (CI,EA,PW,TI,TW) 1-80  
 Trine System (ACS) (CI,EA,PW,TI,TW,WP) 1-80  
 Trine System (Words+) (CI,EA,PW,TI,TW,WP) 1-81  
 V.P. (SV,TO) 3-99  
 Voice Communications System (PC,TI) 3-54  
 XtraKey (KM) 3-20  
 Zygo Notebook (CI,EA,PW,WP) 1-85

**Input Expand/Accel: Encoding (Chart or Memory Based) {IEE}**

ACES (AS,ET) 3-171  
 Apple Demo Disk (AS,ET) 3-190  
 Canon Communicator M (CI,EA,PW,TI,TW) 1-63  
 Elementary MOD Keyboard System (CI,ET,LP,TI) 3-28  
 Light Talker (CI,EA,EC,PW,TI,TW) 1-68  
 Message Maker (CI,PA) 3-327  
 Minspeak 1 (CI,EA,EC,PW,TI,TW) 1-70  
 MOD Keyboard System (CI,TI,TW) 3-40  
 Quick Talk (CI,PA,PC) 3-332  
 RIC Easy Talker (CI,PA) 3-333  
 Software Simulations of Communication Prostheses (AS,CI,ET) 3-182  
 Talk II (CI,PA) 3-337  
 Talking Wheelchair (CI,GA,PA,RE,WP) 3-340  
 Touch Talker (CI,EA,PW,TI,TW) 1-80  
 VOIS 140 (CI,EA) 1-83  
 VOIS 150 (CI,EA) 1-84  
 Word Communication (CI,PA) 3-348

**Input Expand/Accel: Levels or Pages {IEL}**

ACES (AS,ET) 3-171  
 Handi-Writer Version 351 (CI,PA) 3-320  
 Light Talker (CI,EA,EC,PW,TI,TW) 1-68  
 Prism Communication Tray (CI,ET,NA) 1-55  
 Say It (CI,PA) 3-334  
 SCANWOLF (CI,EA,TR) 1-74

Software Simulations of Communication Prostheses (AS,CI,ET) 3-182  
 SonomaVoice (CI,ET,TR) 1-27  
 Special Friend Speech Prosthesis (CI,EA) 1-75  
 Talking Word Board (CI,PA) 3-341  
 Target (AS,CI,ET,TR) 3-280  
 TIM (CI,EA,PW,WP) 1-79  
 Timothy Communications Package (CI,EA,PW) 1-79  
 Touch & Speak (CI,ET,PA,TR) 3-344  
 Touch Com (AS,CI,ET,TR) 3-183  
 Touch Talker (CI,EA,PW,TI,TW) 1-80  
 VOIS 130 (CI,EA) 1-82  
 VOIS 135 (CI,EA) 1-83  
 WOLF (CI,EA,TR) 1-84  
 Zygo scanWRITER (CI,EA,EC,PW,TI,TW) 1-86  
 Zygo TETRAscan II (TI) 3-57

**Input Expand/Accel: Morse {IEM}**

Access-Ability (TI) 3-23  
 ACES (AS,ET) 3-171  
 Adaptive Firmware Card (IA,KE,KM,SW,TI) 3-24  
 Deuce (EC,PC,TW) 2-48  
 ICOMM (CI,EA,PW,TI,TW) 1-68  
 Math Disk (CN,ET) 3-240  
 Morse Code & Drilling Practice Programs (ET,GA,RE) 3-247  
 Morse Code Drills (ET) 3-248  
 Morse-Code Based Keyboard Emulator (TI) 3-40  
 Morser (PA,WP) 3-328  
 PC AID (TI) 3-41  
 PC Morse Code (ET) 3-251  
 Phonics, Text, and Graphics (DR,ET,RE,WP) 3-252  
 PhotoPAC/EvalPAC (AS,CI,EA,EC,ET,PW,TI,TW) 1-71  
 Portable Voice II (CI,EA,PW) 1-72  
 Puffin Morse Code Entry System (TI) 3-44  
 Special Inputs Disk (AS,ET,KM,TI) 3-47

**Input Expand/Accel: Predictive {IEP}**

ACES (AS,ET) 3-171  
 Comm-Prog (CI,PA) 3-313  
 MicroDEC II (CM,EC,PC) 2-57  
 PACA (Portable Anticipatory Communication Aid) (CI,CN,EA,PW,WP) 1-71

**Input Method: Directed Scanning {IMX}**

ACES (AS,ET) 3-171  
 Adaptive Firmware Card (IA,KE,KM,SW,TI) 3-24  
 Computer Entry Terminal (TI) 3-25  
 Easy Programmer (PA) 3-317  
 Elementary MOD Keyboard System (CI,ET,LP,TI) 3-28  
 Enable Writer (TI) 3-28  
 Express 3 (CI,EA,EC,PW,TI,TW) 1-65  
 Joywriter (LP,PA) 3-322  
 Light Talker (CI,EA,EC,PW,TI,TW) 1-68  
 MOD Keyboard System (CI,TI,TW) 3-40  
 PhotoPAC/EvalPAC (AS,CI,EA,EC,ET,PW,TI,TW) 1-71  
 ScanPAC/Epson (CI,EA,EC,PW,TI,TW) 1-74  
 Switchboard (CI,EA,ET) 1-77  
 Word Communication (CI,PA) 3-348  
 X-10 Powerhouse Computer Interface (EC,PA) 3-349

**Input Method: Scanning {IMS}**

AARON (CI,PA,WP) 3-307  
 Academics with Scanning: Language Arts (ET,LS) 3-188  
 Academics with Scanning: Math (CN,ET) 3-188



## Index 2: Products Listed by INPUT/OUTPUT FEATURE

- ACES (AS,ET) 3-171  
 Adaptive Firmware Card (IA,KE,KM,SW,TI) 3-24  
 ALTKEY (TI) 3-24  
 Apple Demo Disk (AS,ET) 3-190  
 Appliance Genie (AS,EC,ET,PA) 3-307  
 Audio Scan (CI,PA) 3-308  
 Blisspen (ET,LS) 3-193  
 Blissymbolics: Bliss Drills (ES,ET) 3-194  
 Blissymbolics: Blissboard (CI,ET,PA) 3-310  
 Blissymbolics: Blissymbol Concepts (ES,ET) 3-194  
 Catch the Cow (AS,ET) 3-173  
 Choice Maker I (AR,ES,ET) 3-198  
 Clock Communicator (AS,CI,ET,TR) 1-18  
 Com Board (AS,CI,ET,TR) 1-19  
 Comm-Prog (CI,PA) 3-313  
 Communicator (PA,WP) 3-314  
 Communiclock (AS,CI,ET,TR) 1-19  
 Compartmentalized Communicator (AS,CI,ET,TR) 1-20  
 Compuadapter (TI) 3-25  
 Computer Entry Terminal (TI) 3-25  
 Computerized Enabling System (CI,EC,PA,PC,WP) 3-315  
 Control 1 (EC,PC) 2-47  
 Counting Critters (CN,ES,ET) 3-209  
 Deuce (EC,PC,TW) 2-48  
 Dial Scan (AS,CI,ET,TR) 1-21  
 E-Tran Scanner (AS,CI,ET,TR) 1-23  
 Easiscorder (EC) 2-51  
 Elementary MOD Keyboard System (CI,ET,LP,TI) 3-28  
 Equalizer (CI,DR,EA,PW,RE,TI,TW,WP) 1-64  
 Express 3 (CI,EA,EC,PW,TI,TW) 1-65  
 EZBAS (CI,OA) 3-132  
 EZRA (CI,CM,EC,PC) 2-54  
 Fast Access Scan Talker (CI,PA) 3-318  
 First Categories (ES,ET,LS,LT) 3-218  
 First Verbs (ES,ET,LT) 3-219  
 First Words (ES,ET,LT) 3-219  
 First Words II (ES,ET,LT) 3-220  
 Flexcom (CI,EA,EC) 1-67  
 Florida Scanner (AP,OA) 3-134  
 Handi-Routine (AP,OA) 3-135  
 Handi-Writer Version 3.51 (CI,PA) 3-320  
 I Can Talk (CI,ES,ET,LT,TR) 3-226  
 ICOMM (CI,EA,PW,TI,TW) 1-68  
 Joywriter (LP,PA) 3-322  
 Kennedy Switch Key Software (CI,ET,OA,TI) 3-136  
 Language L.A.B. (AP,AR,ES,ET,LT) 3-234  
 Light Talker (CI,EA,EC,PW,TI,TW) 1-68  
 Living Center III (CI,CN,EA,EC,RE,WP) 1-69  
 Mac-Apple Communication Aid (CI,CN,DR,ES,ET,PA,WP) 3-325  
 Magic Cymbals (CI,PA) 3-326  
 Math Disk (CN,ET) 3-240  
 Math Scan (CN,ET) 3-241  
 MECCA (EC,PC) 2-57  
 Message Maker (CI,PA) 3-327  
 Micro-LADS (AS,ET,LT) 3-179  
 MicroDEC II (CM,EC,PC) 2-57  
 MOD Keyboard System (CI,TI,TW) 3-40  
 Morse Code & Scanning Practice Programs (ET,GA,RE) 3-247  
 Motor Training Games (AS,ET,GA,RE) 3-301  
 Multi-Scan (AS,CI,ET,PA,TR) 3-329  
 Omnibox (ET,TD,TR) 3-63  
 PACA (Portable Anticipatory Communication Aid) (CI,CN,EA,PW,WP) 1-71  
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## Index 3

# Switches Listed by Input/Output Feature

*This index includes all switches listed by the type of input and by the number of switches. Within each list the switches are listed alphabetically.*

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### Index 3: SWITCHES Listed by Input/Output Feature

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The following is the order of the Input/Output Features by which products in this index are listed:

Input Type: Air (Sip/Puff) {ITA}  
Input Type: Contact (Zero Pressure) {ITC}  
Input Type: Eye Movement and Eye Gaze {ITE}  
Input Type: Joystick/Wobblestick {ITJ}  
Input Type: Light Sensitive (Optical) {ITL}  
Input Type: Movement Activated {ITM}  
Input Type: Noise (Sound or Vocalization) {ITN}  
Input Type: Pressure Sensitive {ITP}

Switch Outputs: Dual Switch {SO2}  
Switch Outputs: Joystick (4 or 5 Switches) {SOJ}  
Switch Outputs: Multiple switches (3 to 15 Switches) {SOM}  
Switch Outputs: Single Switch {SO1}

The following is a list of the Input/Output Feature codes which may appear in parentheses after items in this index:

ITA Input Type: Air (Sip/Puff)  
ITC Input Type: Contact (Zero Pressure)  
ITE Input Type: Eye Movement or Eye Gaze  
ITJ Input Type: Joystick/Wobblestick  
ITL Input Type: Light Sensitive (Optical)  
ITM Input Type: Movement Activated  
ITN Input Type: Noise (Sound or Vocalization)  
ITP Input Type: Pressure Sensitive

SO1 Switch Outputs: Single Switch  
SO2 Switch Outputs: Dual Switch  
SOJ Switch Outputs: Joystick (4 or 5 Switches)  
SOM Switch Outputs: Multiple switches (3 to 15 Switches)

**Input Type: Air (Sip/Puff) {ITA}**

4-Pneumatic Switch (SOM) 2-3  
 Air Switch (SOI) 2-6  
 Dual Pneumatic Switch (SO2) 2-13  
 Mini Joystick with Pneumatic Switch (ITJ,SOJ) 2-24  
 Pneumatic Switch (SO2) 2-30  
 Pneumatic Switch (SO2) 2-31  
 Pneumatic Switch (SO2) 2-31  
 Puff Switch (SOI) 2-32  
 Sip & Puff Switch (SOI) 2-35

**Input Type: Contact (Zero Pressure) {ITC}**

Asaflex Model TS (ITM,ITN,ITP,SOI) 2-7  
 Capacitive Touchplate Interface (SOM) 2-10  
 Cylindrical Touch Switch (SO2) 2-12  
 Dual Touch Pad Switch (SO2) 2-15  
 Magnetic Finger Switch (ITM,SOI) 2-22  
 P-Switch (ITM,ITP,SOI) 2-26

**Input Type: Eye Movement and Eye Gaze {ITE}**

Infrared Switch (ITL,ITM,SOI) 2-19

**Input Type: Joystick/Wobblestick {ITJ}**

4-Switch Joystick (SOI) 2-4  
 Joystick (SOJ) 2-19  
 Joystick with Pad Switch (ITP,SOJ) 2-19  
 Micro Joystick with Push Switch (ITP,SOJ) 2-23  
 Microswitch Joystick (SOJ) 2-24  
 Mini Joystick with Pneumatic Switch (ITA,SOJ) 2-24  
 Mini Joystick with Push Switch (ITP,SOJ) 2-25  
 Modified Joystick (SOJ) 2-25  
 PRC Joystick (SOJ) 2-32  
 Touch Sensitive Joystick Control (SOI) 2-38

**Input Type: Light Sensitive (Optical) {ITL}**

Infrared Switch (ITE,ITM,SOI) 2-19  
 Photo Cell Switch (ITM,SOI) 2-27

**Input Type: Movement Activated {ITM}**

Asaflex Model TS (ITC,ITN,ITP,SOI) 2-7  
 Barrel Switch (SOI) 2-7  
 Brow Wrinkle Switch (SOI) 2-8  
 Eyebrow Switch (SOI) 2-15  
 Finger Flex Switch (SOI) 2-15  
 Flex Switch (ITP,SOI) 2-16  
 Head Control for Wheelchairs (SOJ) 2-17  
 Headband Switch (SOI) 2-18  
 Infrared Switch (ITE,ITL,SOI) 2-19  
 Magnetic Finger Switch (ITC,SOI) 2-22  
 Mercury Tilt Switch (SOI) 2-23  
 P-Switch (ITC,ITP,SOI) 2-26  
 Photo Cell Switch (ITL,SOI) 2-27  
 Tilt Switch (SOI) 2-37  
 Tilt Switch (SOI) 2-37  
 Tip Switch (SOI) 2-38

**Input Type: Noise (Sound or Vocalization) {ITN}**

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**Input Type: Pressure Sensitive {ITP}**

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 Body Switch (SOI) 2-8  
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 Cup Switch (SOI) 2-12  
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 Dual Pushbutton Switch (SO2) 2-14  
 Dual Rocking Lever Switch (SO2) 2-14  
 Dual Tongue Switch (SO2) 2-14  
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 Head Switch (SOI) 2-18  
 Head Switch (SOI) 2-18  
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 Leaf Switch (SOI) 2-20  
 Leaf Switch (SOI) 2-20  
 Leaf Switch (SOI) 2-21  
 Left/Right Rocker Switch (SO2) 2-21  
 Lever Switch (SO2) 2-21  
 Lever Switch (SOI) 2-22  
 Light Touch Lever Switch (SOI) 2-22  
 Membrane Plate Switch (SOI) 2-23  
 Micro Joystick with Push Switch (ITJ,SOJ) 2-23  
 Mini Cup Switch (SOI) 2-24  
 Mini Joystick with Push Switch (ITJ,SOJ) 2-25  
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 Mounting Switch (SOI) 2-26  
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 Rocker Switch (SO2) 2-33  
 Rocking Plate Switch (SO2) 2-34  
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 Single Push Panel (SO1) 2-34  
 Single Rocking Lever Switch (SO1) 2-35  
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 Wobble Switch (SO1) 2-41  
 Wobble Switch (SO1) 2-41

## Switch Outputs: Dual Switch {SO2}

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 Pneumatic Switch (ITA) 2-31  
 Rocker Switch (ITP) 2-33  
 Rocker Switch (ITP) 2-33  
 Rocking Plate Switch (ITP) 2-34  
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## Switch Outputs: Joystick (4 or 5 Switches) {SOJ}

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 Mini Joystick with Pneumatic Switch (ITA,ITJ) 2-24  
 Mini Joystick with Push Switch (ITJ,ITP) 2-25  
 Modified Joystick (ITJ) 2-25  
 PRC Joystick (ITJ) 2-32

## Switch Outputs: Multiple switches (3 to 15 Switches) {SOM}

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 4-Pneumatic Switch (ITA) 2-3  
 4-Pushbutton Switch (ITP) 2-3  
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Capacitive Touchplate Interface (ITC) 2-10  
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## Switch Outputs: Single Switch {SO1}

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 Button Switch (ITP) 2-9  
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 Computer Keyboard Switch (ITP) 2-11  
 Computer Plate Switch (ITP) 2-11  
 Cup Switch (ITP) 2-12  
 Eyebrow Switch (ITM) 2-15  
 Finger Flex Switch (ITM) 2-15  
 Flat Air Cushion Switch (ITP) 2-16  
 Flex Switch (ITM,ITP) 2-16  
 Grasp Switch (ITP) 2-16  
 Grip Switch (ITP) 2-17  
 Hand Switch (ITP) 2-17  
 Head Switch (ITP) 2-18  
 Head Switch (ITP) 2-18  
 Headband Switch (ITM) 2-18  
 Infrared Switch (ITE,ITL,ITM) 2-19  
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 Leaf Switch (ITP) 2-20  
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## Index 4

### Products Listed by Computer

*This index lists all products for each computer, followed by the functions of that product and the book-page location. Whenever possible the computer family has been specified. The listings for specific models within that family generally include only those products made specifically for that model (e.g., a keyguard) or with clearly stated restrictions regarding certain models. In all other cases, including those where software compatibility with all models in the family is not clearly specified, the computer family has been used. The manufacturer should always be contacted for up-to-date information on which models a program works with.*

*For example, someone interested in software for the IBM PCjr. should check both the IBM PCjr. and IBM family lists. The manufacturer of the software that is identified as meeting the function needs and having the necessary input and output features should then be contacted to determine whether the program will run on the IBM PCjr.*

The following is the order of the Computers by which products in this index are listed:

All Computers (Hardware Independent) {ALL}  
 Any CP/M Computer {CPM}  
 Apple II family (model not specified) {A2}  
 Apple II+ {A2+}  
 Apple IIc {A2C}  
 Apple IIe {A2E}  
 Apple Macintosh family {AM}  
 Atari (model not specified) {R}  
 Atari 2600 {R26}  
 Atari 400 {R4}  
 Atari 800 {R8}  
 Atari 800XL {R8X}  
 Atari ST family {RS}  
 Commodore (model not specified) {C}  
 Commodore 128 {C12}  
 Commodore 64 {C64}  
 Commodore Amiga {CA}  
 Commodore VIC 20 {CV2}  
 DEC (model not specified) {D}  
 Epson HX20 {EH2}  
 IBM 3270 {I37}  
 IBM PC AT {IPA}  
 IBM PC family (model not specified) {IP}  
 IBM PC jr {IPJ}  
 NEC (model not specified) {NE}  
 Other - Control Data {OC}  
 Other - Franklin 1000 {OF1}  
 Other - Franklin family (model not specified) {OF}  
 Other - Grid {OG}  
 Other - ITT {OI}  
 Other - Terminal (type not specified) {OT}  
 Other - Zenith {OZ}  
 TRS-80 Color {T8C}  
 TRS-80 Model 100 {TP1}  
 TRS-80 Model 200 {TP2}  
 TRS-80 Model I {T81}  
 TRS-80 Model II {T82}  
 TRS-80 Model III {T83}  
 TRS-80 Model IV {T84}  
 Tandy 2000 {T20}  
 Tandy/Radio Shack (model not specified) {T}  
 Texas Instrument TI 99/4A {X94}

The following is a list of the Function codes which may appear in parentheses after items in this index:

AD Activities of Daily Living  
 AL Artificial Larynx  
 AM Administration or Management  
 AP Authoring Program  
 AR Analysis or Reporting Software  
 AS Assessment (Evaluation)  
 BD Braille Printer or Tactile Display (Component)  
 BP Book/Paper Handling  
 BR Braille  
 CI Conversation/Interaction  
 CM Call, Monitoring, or Memory System  
 CN Calculation/Math Aid  
 CR Cognitive Rehabilitation  
 DR Drawing  
 DS Database Management/Spreadsheet  
 EA Electronic Communication or Writing Aid  
 EC Environmental Control  
 ES Early Skills (Pre-Reading)  
 ET Education, Training, or Therapy  
 GA Game  
 IA Input Adapter for Computer  
 ID Input Device Usable with Only Some Software  
 IE IEP or IPP  
 KB Keyboarding Training Program  
 KE Keyboard Emulating Interface  
 KG Keyguard  
 KM Modification for Standard Keyboard  
 LP Large Print Output  
 LR Lipreading (Speech Reading)  
 LS Later Skills (Includes Reading)  
 LT Language Therapy/Development  
 MT Mouse or Touch Pad Emulation  
 NA Non-Electronic Communication Aid  
 OA Other Software or Hardware Adaptation  
 PA Personal Tool or Aid (for Speaking, Writing, Drawing, Controlling, etc.)  
 PC Phone Control/Access  
 PT Pointing or Typing Aid  
 PW Portable Writing  
 RE Recreation  
 SA Speech Aid  
 SI Signing  
 SS Speech Synthesizer  
 ST Speech Therapy (not Language Therapy)  
 SV Screen (Display) to Voice  
 SW Switch or Control  
 TD Telecommunication Device for the Deaf (TDD)  
 TE Terminal Emulator (Special Only)  
 TI Alternate Input Usable with All Software  
 TL Telecommunication  
 TO Alternate Display System Usable with All Software  
 TR Training or Communication Initiation Aid  
 TW Alternate Input Adaptable for Use with All Software (Transparent With)  
 VA Voice Amplifier  
 VO Vocational  
 WP Word Processing (Writing)

**All Computers (Hardware Independent) {ALL}**

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 BETA-X3 Thiel Braille Printer (BD,BR) 3-105  
 Butler-in-a-Box (EC,PC,TI) 2-46  
 CallText 5050 (PC,SS) 3-115  
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 CompuDesk HCP (OA) 3-129  
 Coretechs VET3 (TI) 3-26  
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 DECtalk (SS) 3-116  
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 Modular Twin Turntable Desk (OA) 3-138  
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 Romeo Braille (BD,BR) 3-109  
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 SR-100 Voice Input Terminal (TI) 3-48  
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 ASIEP Computer Scoring and Interpretation (AM,AR) 3-149  
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 Spellist (ET,LS) 3-273  
 Stanford-Binet Computer Report (SB-CR) (AM,AR) 3-162  
 SuperKey (KM) 3-19  
 Supertalker (SS) 3-122  
 SynPhonix 200 (SS) 3-123  
 Tele-Talk (PA,SV) 3-342  
 TI-Speech (TI) 3-49  
 Touch Talker (CI,EA,PW,TI,TW) 1-80  
 Touch Window (DR,DS,JD,RE,WP) 3-65  
 Trine System (ACS) (CI,EA,PW,TI,TW,WP) 1-80  
 Trine System (Words+) (CI,EA,PW,TI,TW,WP) 1-81  
 UNISTAR Pre-IEP Report (AM,IE) 3-163  
 V.P. (SV,TO) 3-99  
 VERBal STAR (PA,SV,WP) 3-347  
 Vert Plus (SV,TO) 3-100  
 Viewscan Text System (CN,LP,PA,PW,T,ET,TO,WP) 3-100  
 Vista (LP,TO) 3-101  
 VocaLink CSRB-LC (TI) 3-50  
 VocaLink Series 4000 (TI) 3-51  
 Voice Card (TI) 3-52  
 Voice Command System (TI) 3-53  
 Voice Communications Option (PC,SV,TI,TL) 3-53  
 Voice Communications System (PC,TI) 3-54  
 Voice Driver (TI) 3-54  
 Voice Systems Package (SV,TI) 3-55  
 Voicescribe-1000 (TI) 3-55  
 Voicescribe-20000 (TI) 3-56  
 Votalker IB (SS) 3-126  
 WAIS-Riter 'BASIC' (AM,AR) 3-164  
 Wechsler Adult Intelligence Scale-Revised (WAIS-R) (AM,AR) 3-164  
 Western Center Echo + Synthesizer Package (OASV) 3-143  
 WISC-R Computer Report (WISC-RCR) (AM,AR) 3-165  
 WISC-Riter 'BASIC' (AM,AR) 3-166  
 WISC-Riter Complete (AM,AR) 3-166  
 Woodcock Reading Mastery Tests Error Analysis Report (AM,AR) 3-167  
 Word-Talk (PA,SV,WP) 3-348  
 Words-to-Voice (SV,TO,WP) 3-101  
 ZygscanWRITER (CI,EA,EC,PW,TI,TW) 1-86  
 ZygscanTETRAscan II (TI) 3-57

## IBM PC jr {IPJ}

Coinskeys (CN,ES,ET,KB) 3-202  
 Core Reading and Vocabulary Development (ET,LS) 3-208  
 Enhanced PC Talking Program (SV,TO) 3-85  
 Foundations I (AR,CN,ES,ET) 3-221  
 Game Power for Phonics, Plus (AS,ET,LS) 3-177  
 Key Tronic Plug-Compatible Keyboards (KM) 3-7  
 Keyguards (KG,KM) 3-10  
 Keylocks (KM) 3-12  
 Keyshields (KG,KM) 3-13  
 Micro Braille (BR,PA,WP) 3-327  
 Multi-Scan (AS,CI,ET,PA,TR) 3-329  
 PC Speak (SV,TO) 3-92  
 Picture Perfect (DR,RE) 3-302  
 Race the Clock (ET,GA,RE) 3-260  
 Spellist (ET,LS) 3-273  
 Synphonix jr (SS) 3-123  
 Writing to Read (ET,LS) 3-295

## NEC (model not specified) {NE}

FingerTip Controller (SW,TI) 3-31  
 Head Switch (SW,TI) 2-18  
 Keyer (KM) 3-8  
 Modified Joystick (SW) 2-25  
 Tongue Controller (SW,TI) 3-49

## Other - Control Data {OC}

JOBS System (AM,AR,AS,VO) 3-178

## Other - Franklin 1000 {OF1}

Computer Entry Terminal (TI) 3-25

## Other - Franklin family (model not specified) {OF}

Keyguards (KG,KM) 3-11  
 Print-it (OA,TO) 3-94

## Other - Grid {OG}

Keyguards (KG,KM) 3-12  
 Moisture Guard (KM,OA) 3-15

## Other - ITT {OI}

Voice Communications System (PC,TI) 3-54

## Other - Terminal (type not specified) {OT}

VocaLink SYS300 (TI) 3-51  
 VocaLink VRT300 (TI) 3-52

## Other - Zenith {OZ}

Smarthome I (CM,EC,PC) 2-63

## TRS-80 Color {T8C}

Ears (TI) 3-27  
 Handi-Writer Version 3.51 (CI,PA) 3-320  
 Lightpen Programs for Special Education I & II (CN,ET,LS) 3-237  
 Morser (PA,WP) 3-328  
 PowerPad (DR,ID,RE) 3-64  
 Quiet Duck Learning Series (AS,ET,KB,LS) 3-259  
 Super Voice (SS) 3-121

## TRS-80 Model 100 {TP1}

Keyer (KM) 3-8  
 Talking 100 (CI,EA,PC,PW,WP) 1-78

## TRS-80 Model 200 {TP2}

Keyer (KM) 3-8

## TRS-80 Model I {T81}

Basic Interpreter for the Blind (SV,TO) 3-82  
 Cogrehab Vol. 1 (CR,ET,LS) 3-200  
 Cogrehab Vol. 2 (CR,ET,LS) 3-200  
 Cogrehab Vol. 3 (CR,ET,LS) 3-201  
 Enhanced PC Talking Program (SV,TO) 3-85  
 JOBS System (AM,AR,AS,VO) 3-178  
 Keyguards (KG,KM) 3-10  
 Large Type (LP,PA,WP) 3-323  
 SAYIT (AP,OA) 3-140

## TRS-80 Model II {T82}

Handi-Keys (AR,AS,KM) 3-5

## TRS-80 Model III {T83}

Articulator: Goals and Objectives for Speech (AM,IE,ST) 3-149  
 Child Placement Report Writer (AM,AR) 3-151  
 Cogrehab Vol. 1 (CR,ET,LS) 3-200  
 Cogrehab Vol. 2 (CR,ET,LS) 3-200  
 Cogrehab Vol. 3 (CR,ET,LS) 3-201  
 Core Reading and Vocabulary Development (ET,LS) 3-208  
 Deafsign (AS,ET,SI) 3-210  
 Edufun (CN,ET,LS) 3-213  
 Enable Writer (TI) 3-28  
 Enhanced PC Talking Program (SV,TO) 3-85  
 Explorer (AM,AR) 3-154  
 Game Power for Phonics, Plus (AS,ET,LS) 3-177  
 H:1 Handicapped Word Games (ET,GA,LS,RE) 3-300  
 H:2 Handicapped Arithmetic Flash Cards (CN,ET,LS,RE) 3-224  
 Keyboarding For The Dyslexic (ET,KB,LS,WP) 3-230  
 Keyboarding for the Physically Handicapped (AS,ET,KB) 3-231  
 Keyboarding for the Visually Limited (ET,KB,LP,WP) 3-231  
 Keyboarding with One Hand (ET,KB,WP) 3-232  
 Keyguards (KG,KM) 3-10  
 Large Type (LP,PA,WP) 3-323  
 PIAT Error Analysis Report (AM,AR) 3-159  
 Quiet Duck Learning Series (AS,ET,KB,LS) 3-259  
 SAYIT (AP,OA) 3-140  
 Stanford-Binet Computer Report (SB-CR) (AM,AR) 3-162  
 Wechsler Adult Intelligence Scale-Revised (WAIS-R) (AM,AR) 3-164  
 WISC-R Compilation: What To Do Now... (AM,AR) 3-165  
 WISC-R Computer Report (WISC-RCR) (AM,AR) 3-165

Woodcock Reading Mastery Tests Error Analysis Report  
(AM,AR) 3-167

### TRS-80 Model IV {T84}

Articulator: Goals and Objectives for Speech (AM,EST) 3-149  
Child Placement Report Writer (AM,AR) 3-151  
Cogrehab Vol. 1 (CR,ET,LS) 3-200  
Cogrehab Vol. 2 (CR,ET,LS) 3-200  
Cogrehab Vol. 3 (CR,ET,LS) 3-201  
Core Reading and Vocabulary Development (ET,LS) 3-206  
Enable Reader (SV,TO) 3-85  
Enable Writer (TI) 3-28  
Explorer (AM,AR) 3-154  
Game Power for Phonics, Plus (AS,ET,LS) 3-177  
Keyboarding For The Dyslexic (ET,KB,LS,WP) 3-230  
Keyboarding for the Physically Handicapped (AS,ET,KB) 3-231  
Keyboarding for the Visually Limited (ET,KB,LP,WP) 3-231  
Keyboarding with One Hand (ET,KB,WP) 3-232  
Large Type (LP,PA,WP) 3-323  
PIAT Error Analysis Report (AM,AR) 3-159  
Quiet Duck Learning Series (AS,ET,KB,LS) 3-259  
Stanford-Binet Computer Report (SB-CR) (AM,AR) 3-162  
Wechsler Adult Intelligence Scale-Revised (WAIS-R)  
(AM,AR) 3-164  
WISC-R Compilation: What To Do Now... (AM,AR) 3-165  
WISC-R Computer Report (WISC-RCR) (AM,AR) 3-165  
Woodcock Reading Mastery Tests Error Analysis Report  
(AM,AR) 3-167

### Tandy 2000 {T20}

Quiet Duck Learning Series (AS,ET,KB,LS) 3-259

### Tandy/Radio Shack (model not specified) {T}

Smarthome I (CM,EC,PC) 2-63

### Texas Instrument TI 99/4A {X94}

Keyguards (KG,KM) 3-11



# Appendix A

## Additional Sources of Information

*This appendix includes resource lists and sources of information about a variety of topics relevant to the application of technology in special education, rehabilitation and augmentative communication. The information provided is not evaluative and inclusion on any of the Information Summaries does not imply endorsement or recommendation. A listing of the Information Summary titles is provided on the next page.*

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## Selected Software Resources

This list contains two sections, with information on SOFTWARE DIRECTORIES and SOFTWARE INFORMATION SERVICES. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Software Directories and Guides

#### Special Times

Free

COL

Dept. C

1696 Massachusetts Avenue

Cambridge, MA 02138

800/637-0047

*Free catalog of software selected specifically for children with learning disabilities. Over 100 programs, by subject area.*

#### The Educational Software Catalog

Computer Options

85 Market Street

Poughkeepsie, NY 12601

914/471-2765

*100 pages; current educational software for Apple, IBM, and Commodore, by subject area; 500+ titles.*

#### Public Domain Software on File, Apple II Series Collection

Facts on File Publications

460 Park Avenue South

New York, NY 10016

212/683-2244

*Currently gathering and evaluating public domain software for IBM, Macintosh, and CP/M.*

#### Software Directory of Free Educational Material and Special Education Software

\$30.00

Education Associates

P.O. Box 35221

Phoenix, AZ 85069

#### Special Apple Speech-Large Print Resource Lists

\$10.00

Access Unlimited Speech Enterprises

P.O. Box 7986

Houston, TX 77270

713/461-1666

#### The Educational Software Catalog

Soft-Kat Inc.

Crestwood Co.

P.O. Box 04606, Dept. SJK

Milwaukee, WI 53204

414/351-0311

*Includes chart showing curriculum goals/skills and grade levels, and which programs focus on these skills.*

#### Software Recommended for Special Populations

Dr. Eydie Sloane

FDLRS-South

9220 SW 52nd Terrace

Miami, FL 33165

305/274-3501

*Alphabetically lists programs in major curriculum areas (language arts, math, social studies, science, career/vocational education, speech/language, survival/independent living skills, leisure activities, word processing/utilities, computer science/technology and recommendations for (1) hearing impaired, vision impaired, motor impaired, mentally retarded or learning disabled and (2) ability/interest level - preschool, elementary, junior, senior and adult.*

#### The Specialware Directory: A Guide to Software For Special Education

\$19.50

The Oryx Press

2214 N. Central at Encanto

Suite 104

Phoenix, AZ 85044

*Comprehensive reference of programs from more than 100 companies. Programs are indexed by curriculum area (further divided into specific skill areas), exceptionality, hardware, use of special peripherals for input and output, level (early childhood, primary, intermediate jr. high, sr. high, adult basic education, professional). Programs for special education admin. are included (authoring systems, learner evaluation and assessment, records maintenance/general administration and management, teacher utilities).*

## Appendix A: Additional Sources of Information

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The 1986 Educational Software Preview Guide  
ICCE (International Council for Computers in Education)  
University of Oregon  
1787 Agate Street  
Eugene, OR 97403-1923  
503/686-4414

*Lists over 400 titles of favorably reviewed software for K-12 classroom use by curriculum area.*

Only the Best: The Discriminating Software Guide  
For Preschool-Grade 12  
1986 edition  
Education News Service (see Publications section)  
P.O. Box 1789

Carmichael, CA 95609  
916/483-6159  
916/488-4623

*An annual report by the editors of School Tech News. Descriptions of 168 new programs that received highest agreement of top quality from 22 evaluation services, and a listing of 54 runners-up programs and the 113 highest rated programs from 1985.*

Technology in Curriculum (TIC) Project  
Technology Unit  
California Dept. of Education  
721 Capitol Mall  
Sacramento, CA 95814  
916/324-1961

*4 resource guides (math, lang. arts, science, history/social sci.) which explain how 100 video and 500 software programs fit into the curriculum with specified learning objectives. 5-10 detailed lesson plans using programs for different grades in each subject area. Data related software (Apple II) merges information in the resource guides electronically. This is expected to be a model for other states; each public school in Calif. received a copy. A limited number are available for other educators.*

Compilation of Clinical Software For Aphasia Rehabilitation and Cognitive Retraining  
Clinical 2850 Windemere  
Birmingham, MI 48008

Computer Use in Social Services  
Network Software Clearinghouse  
The Graduate School of Social Work  
University of Denver  
Denver, CO 80208-0274  
303/871-2915

*Software for use in human services.*

Survey of Existing Courseware  
Education Turnkey Systems, Inc.  
256 N. Washington Street  
Falls Church, VA 22046  
703/536-2310

The Special Directory  
LINC Resources  
3857 North High Street  
Columbus, OH 43214  
614/263-2123

Family Guide to Educational Software  
L.F. Garlinghouse, Inc.  
320 SW 33rd Street  
P.O. Box 299  
Topeka, KS 66601-0299  
913/267-2490

Educational Software for the School  
American Educational Computer  
2450 Embarcadero Way  
Palo Alto, CA 94303

Directory of Educational Computing Resources  
Classroom Computer Learning  
5616 West Carmel Street  
Cicero, IL 60650

The Yellow Book: A Parent's Guide to Teacher Tested Educational Software  
1985  
Garland Publishing, Inc.  
13 Madison Avenue  
New York, NY 10016

IBM Special Education Resources Guide to Adaptive Devices, Software, and Services for Special Education, Vocational Rehabilitation, and Employers  
National Support Center for Persons with Disabilities  
P.O. Box 2150  
Atlanta, GA 30055  
404/238-3206  
800/426-2133

The Rehab/Education Technology Resourcebook Series: Resourcebook 3, Software and Hardware  
1986  
Trace Research and Development Center  
1500 Highland Avenue  
S-151 Waisman  
Madison, WI 53705  
608/262-6966

Curriculum Software Group  
P.O. Box 189  
Selma, OR 97538  
503/597-2424  
*Software for special education.*

Custom Software For Use in Rehabilitation Facilities  
The Sheltered Workshop, Inc.  
P.O. Box 1206  
208 N. 4th Street  
West Memphis, AR 72301  
501/732-2750

*Programs include: Individual Program Planning, Job/Client Matching, Piece Rate Payroll, Contribution Recording System, Leave Record, and Client Data Management.*

Courseware in Special Education  
School Book Branch  
Alberta Education  
10410 - 121 Street  
Edmonton, Alberta, Canada T5N 1L2  
403/427-2767

*Available on diskette, usable with DB Master program.*

Personal Computer Software  
IBM National Support Center for Persons with Disabilities  
P.O. Box 2150  
Atlanta, GA 30055  
404/238-3206  
800/426-2133

Special Education Software Review  
Dea Pfeiffer (editor)  
3807 Northwood Avenue  
Peoria, IL 61614  
309/685-8262

Microgram  
Educational Products Information Exchange  
P.O. Box 839  
Water Mill, NY 11976  
516/283-4922

The Digest of Software Reviews: Education  
301 West Mesa  
Fresno, CA 93704  
209/431-8300  
*1000+ review extracts from 150 journals and magazines; monthly issues and circulation indexes by title, subject, publisher and computer (Ap, Ct, Com, IBM, DEC, TRS-80)*

Educational Software  
First Software Corporation  
available at computer dealers  
*A quarterly catalog of bestselling educational products for Apple, IBM and Commodore 64 computers.*

An Update on Software in Cognitive Rehabilitation  
William Lynch  
May/June, 1986  
Cognitive Rehabilitation  
6555 Carrollton Avenue  
Indianapolis, IN 46220  
317/257-9672

#### Software Information Services

Connecticut Special Education Network/Software Evaluation  
ConnSENSE  
Box U-64  
Glenbrook Road  
University of Connecticut  
Storrs, CT 06268  
203/486-4034

*Concerned with evaluating courseware for disabled students. Has telecommunications system for special education administrators, and a telecommunication project for disabled students.*

Special Education Software Center  
Building B, Room S312  
333 Ravenswood Avenue  
Menlo Park, CA 94025  
For Technical Assistance: 800/223-2711  
For Technical Assistance (City): 800/435-7639  
For Software Information: 800/327-5892  
*Free access to the Center's software database and information services. Can retrieve by any or all of these categories: curriculum or skill term; academic readiness or interest level; handicapping condition; type of computer, peripherals required; primary users; type of instruction. Center staff mail out a printout of all references found, or can send electronically to SpecialNet, CompuServe, or HelpNet (see "Networks"). An info sheet listing hands-on evaluation of products available. Funded by US Dept. of Education*

Disability, Electronic Aids Reference Service (DEARS)  
Miss Helen M. Townley  
117, Wickham Chase  
W. Wickham Kent, ENGLAND BR4 0BQ  
01-777 7560

## Selected Newsletters and Journals

This list is divided into sections of publications with information for computer users with disabilities, and those using computers to teach persons with disabilities, and information on the area of augmentative communication. No recommendations or endorsements are implied by inclusion in this list. Contact each resource for specific, up-to-date information.

Journal for Computer Users in Speech and Hearing  
Computer Users in Speech and Hearing (CUSH)  
School of Hearing and Speech Sciences  
Ohio State University  
Athens, OH 45701  
614/594-6168  
*Publishes manuscripts dealing with computer applications in diagnosis, treatment, and delivery of services to communicatively handicapped persons. Includes software/hardware reviews, new product announcements and summaries.*

American Journal of Occupational Therapy  
American Occupational Therapy Association  
1383 Piccard Drive  
Rockville, MD 20850  
301/948-9626  
*Publication that lists new approaches, practices, research, educational activities and professional trends in occupational therapy.*

SERC Newsletter  
Connecticut Special Education Resource Center  
Hartford Graduate Center  
275 Windsor Street  
Hartford, CT 06120  
203/246-8514  
*Outlines the Special Education Resource Center's inservice activities, and lists new acquisitions, including professional books, instructional materials and microcomputer software.*

Electronic Education  
Electronic Communications, Inc.  
1311 Executive Center Drive  
Suite 220  
Tallahassee, FL 32301  
904/878-4178  
*Electronic Education features educational uses of the microcomputer. Has carried articles on computer applications in special education.*

Rehabilitation Gazette  
Gazette International Networking Institute  
4502 Maryland Avenue  
St. Louis, MO 63108  
314/361-0475  
*A bi-annual international journal on the subject of independent living. Published by disabled individuals, it features articles on travel, book reviews, technological equipment and friends around the world.*

TRAINING, The Magazine of Human Resource Development  
Lakewood Publications, Inc.  
The Lakewood Building  
50 S. 9th Street  
Minneapolis, MN 55402  
612/333-0471  
*Articles concerning training disabled employees to do their jobs in corporate and industrial settings as well as making jobs accessible to disabled people. Concentrates on adapting existing business equipment.*

Ruralink  
ACRES  
359 Miller Hall  
W. WA University  
Bellingham, WA 98225  
206/676-3576  
*Each issue contains a section on technology. Additionally, various other sections report latest technological and adaptive devices for rural disabled individuals.*

Rural Special Education Technology  
National Rural Development Institute  
359 Miller Hall  
W. WA University  
Bellingham, WA 98225  
206/676-3576  
*Each issue contains sections on resources, problems and strategies, many of which are related to technology for handicapped persons. A recent issue was devoted exclusively to technology.*

**Education Computer News**  
 Capitol Publications  
 1300 N. 17th Street  
 Arlington, VA 22209  
 703/528-5400

*Bi-monthly newsletter that reports on computer advances in education. Reports on teacher training, software purchasing, obsolescence, new products, research, legislation, state and local news, meetings and conventions.*

**Cognitive Rehabilitation**  
 6555 Carrollton Avenue  
 Indianapolis, IN 46220  
 317/257-9672

*Bimonthly journal that includes articles on the use of computers in cognitive retraining, software reviews, and printed source code to allow readers to program new applications.*

**MAINSTREAM, Magazine of the Able Disabled**  
 Exploding Myths, Inc.  
 2973 Beech Street  
 San Diego, CA 92102  
 619/234-3138

*Covers independent living and employment related technology. Also carries feature articles on individuals with various handicapping conditions.*

**BYTE**  
 70 Main Street  
 Peterborough, NH 03458  
 603/924-9281

*BYTE is a monthly magazine covering general computer applications. The magazine has occasional articles on computer applications for disabled individuals.*

**Education Update**  
 Association for Retarded Citizens of Georgia  
 1851 Ram Runway #102  
 Colley Park, GA 30337  
 404/761-2745

*Contains articles relevant to parents educating each other. Technological aids and assistive devices are frequently featured.*

**Input/Output**  
 669 Casleton Avenue  
 Staten Island, NY 10301  
 718/984-1526

*This periodical is published by handicapped students in the New York City Public Schools. It serves as a clearinghouse for technology in Special Education.*

**Rehabilitation Digest**  
 Canadian Rehabilitation Council for the Disabled  
 One Yonge Street  
 Suite 2110  
 Toronto, Ontario Canada M5E 1E5

416/862-0340  
*Each issue contains the feature, "Let's Get Technical," highlighting technology and aids to daily living. Additionally, computer technology is a regular feature.*

**The Exceptional Children**  
 Psy Ed Corporation  
 605 Commonwealth Avenue  
 Boston, MA 02215  
 617/536-8961

*Covers technology and exceptional children as well as new technological developments. Devotes one issue each year strictly to technology.*

**Education of the Handicapped**  
 Capitol Publications  
 1300 N. 17th Street  
 Arlington, VA 22209  
 703/528-5400

*Bimonthly newsletter containing current information about federal, state, and local efforts to educate handicapped children. Covers new laws and regulations, court cases and funding.*

**Moving Forward**  
 P.O. Box 1304  
 La Canada, CA 91011  
 818/952-1340

*Features articles on various disabilities as well as regular items regarding technology and disabled people.*

**Paraplegia News**  
 5201 N. 19th Avenue 111  
 Phoenix, AZ 85015  
 602/246-9426

*Offers information on spinal cord injury issues to disabled individuals and to the professional community. Includes articles on accessibility, research, recreation, legislation, and new products.*

**Personal Computer Opportunities for the Handicapped**  
 P.O. Box 374  
 Spicer, MN 56288  
 612/796-5765

**Viewpoint**  
 Center for Information Resources  
 University of Pennsylvania  
 4025 Chestnut Street, 3rd Floor-T7  
 Philadelphia, PA 19104-3054  
 215/898-8108

*A publication designed to address the community of individuals interested in training and placement of handicapped persons in the area of data processing.*

## Appendix A: Additional Sources of Information

Washington Apple Pi Journal  
Washington Apple Pi  
8227 Woodmont Avenue  
Suite 201  
Bethesda, MD 20814  
301/654-8060

*Feature reviews of microcomputer hardware and software. It also serves as a type of computer bulletin board for individuals wishing to meet and/or help other computer users.*

Link-and-GO  
COPH Bulletin  
COPH-2  
2030 Irving Park Road  
Chicago, IL 60618  
312/477-1813

*Periodicals dedicated to handicapped persons who use personal computers. Quarterly.*

On-Line Today  
CompuServe, Inc.  
5000 Arlington Centre Blvd.  
Columbus, OH 43220

*This periodical informs subscribers to CompuServe's Handicapped User's Database about new technologies and services available on the database.*

Accent on Living  
Box 700  
Bloomington, IL 61701  
309/378-2961

*Quarterly. Information for physically disabled individuals.*

The Disabled Challenger  
Kissick's Consultants, Inc.  
1615 South Fourth  
Apt. #M-3210  
Minneapolis, MN 55454

*Quarterly newsletter. Each issue features one disabled person and one nondisabled person with positive outlooks.*

Bits and Pieces  
Massachusetts Rehabilitation Commission Library  
Room 331  
20 Park Plaza  
Boston, MA 02116  
617/727-1140 (voice and TDD)

*A bi-monthly newsletter and acquisitions list of the Massachusetts Rehabilitation Commission Library. The Library has a large collection of disability and rehabilitation information.*

The Disability Rag  
The Advocado Press, Inc.  
Box 145  
Louisville, KY 40205-54  
502/459-5343

*Deals with social change and political issues affecting the disability rights movement. Frequently contains articles regarding the relevance of technology and announcements about new technology.*

ConnSENSE Bulletin  
Connecticut Special Education Resource Center  
Hartford Graduate Center  
275 Windsor Street  
Hartford, CT 06120  
203/246-8514

*Contains reviews of software as they apply to special needs students. Lists upcoming events and technological breakthroughs for people with disabilities as well as resource and reference information.*

Bright Futures  
Easter Seal Children's Center  
3161 Maple Drive, NE  
Atlanta, GA 30305  
404/261-6262

*Offers advice for pre-school computing, including articles on successful software utilized both in therapy and the classroom. Also covers questions and answers derived from letters to the editor.*

Awareness  
NAPVI  
P.O. Box 180806  
Austin, TX 78718  
InCider  
CW Communications/Peterborough  
P.O. Box 911  
Farmingdale, NY 11737-9811

*Monthly magazine that deals with the Apple II series of computers. Articles, reviews, including educational software.*

Counterpoint  
9618 Percussion Way  
Vienna, VA 02180  
703/281-3601  
*Quarterly newspaper sponsored by the National Association of State Directors of Special Education. Practices, research outcomes, trends and advancements in special education.*

Disability News OnLine  
257 Center Lane  
Levittown, NY 11756



**SENSUS**

Technology Update  
Sensory Aids Foundation  
399 Sherman Avenue, Suite 12  
Palo Alto, CA 94306  
*Quarterly.*

**UpdatABLE**

D:ATA Institute  
4407 Eighth Street NE  
Washington, DC 20017  
*Quarterly newsletter with Abledata current events, questions and answers, related information sources and user success stories. A component of the Abledata User's Group.*

**Bulletins of Science and Technology for the Handicapped**  
Free of charge.

American Association for the Advancement of Science  
Office of Opportunities in Science  
1776 Massachusetts Ave. N.W.  
Washington, DC 20005  
202/467-4400

*Quarterly. Includes announcements of products, meetings, scholarships, grants, resource lists, and summaries of current research.*

**The Catalyst**

1259 El Camino Real  
Suite 275  
Menlo Park, CA 94025  
415/326-6997

*Bimonthly; Newsletter of the Western Center for Microcomputers in Special Education, Inc.; Information on products, research, and applications.*

**Closing the Gap**

P.O. Box 68  
Henderson, MN 56044  
612/248-3294

*Bimonthly. Information on the use of computers in special education and rehabilitation, including software and hardware reviews, user comments, articles, and suggestions.*

**Computer Disability News**

Free of charge.  
National Easter Seal Society  
2023 W. Ogden Ave.  
Chicago, IL 60612  
312/243-8400

*Quarterly; Announcements regarding products, software, meetings, grants; interviews with leaders in the field.*

**COPH Bulletin**

2030 Irving Park Road  
Chicago, IL 60618  
Committee on Personal Computers and the Handicapped;  
*Quarterly.*  
Cue Newsletter  
P.O. Box 18547  
San Jose, CA 95158  
*Bimonthly; Special education news and information on educational software.*

**Current D:ATA**

D:ata Institute  
The Catholic University of America  
4407 8th St. N.E.  
San Jose, CA 95158

**FDLRS-South**

Exceptional Technology  
9220 SW 52 Terrace  
Miami, FL 33615  
305/274-3501

**Micro Scope**

HCCCP  
7938 Chestnut  
Kansas City, MO 64132  
816/363-4606

*Quarterly newsletter of the Handicapped Children's Computer Cooperative Project. Includes software review and application tips.*

**Network**

No charge.  
2520 Broadway Drive  
Minneapolis, MN 55110  
*Bimonthly. Instructional newsletter listing materials available from the Minnesota Educational Computing Consortium.*

**Re:Able**

Re:Able Publishing  
P.O. Box 381  
Bellflower, CA 90706  
*Bimonthly; Provides announcements and articles on successful computer applications.*

**Rehabilitation Technology Review**

RESNA  
1101 Connecticut Avenue NW  
Suite 700  
Washington, DC 20036  
202/857-1199  
*"Left to Our Own Devices"*

## Appendix A: Additional Sources of Information

The Sloane Report  
9220 SW 52nd Terrace  
Miami, FL 33155  
305/251-2199

*Bimonthly. Available on cassette. Information on the computer industry, software and hardware reviews, consumer tips, and product information.*

Teaching Research Newsletter  
Special Education Department  
Monmouth, OR 97361  
503/838-1220

Trade-a-Comp, Trade-a-Disk  
P.O. Box 671

Bethel Park, PA 15102

*Monthly; For those wanting to buy, sell, or trade new or used computer hardware and software.*

VME (Volunteers for Medical Engineering, Inc.)  
11728 Mays Chapel Road  
Lutherville, MD 21093  
301/252-7834

Classroom Computer News  
International Educations, Inc.  
51 Spring Street  
Watertown, MA 02172

The Computing Teacher  
\$21.50/yr.  
135 Education  
1787 Agate Street  
University of Oregon  
Eugene, OR 97403  
503/686-4414

*9 issues/yr (August-June). The journal of ICCE (International Council of Computers in Education). Articles, columns of various interest areas (logo, math, language arts, sciences) software reviews, new products, calendars/updates.*

Educational Dealer  
Pitman Learning  
19 Davis Drive  
Belmont, CA 94002

Educational Technology  
Educational Technology Publications  
720 Palisade Avenue  
Englewood Cliffs, NJ 07632  
201/871-4007

*Monthly. Articles dealing with the application of computers for education, literature and product reviews, and abstracts of documents from the ERIC Clearinghouse of Information Resources.*

Electronic Learning  
Scholastic, Inc.  
P.O. Box 645  
Lyndhurst, NJ 07071

Family Computing  
Scholastic, Inc.  
351 Garver Road  
P.O. Box 2700  
Monroe, OH 45050-9998

Journal of Educational Technology Systems  
Baywood Publishing Company, Inc.  
120 Marine Street  
Farmingdale, WY 11735

Journal of Special Education Technology  
Managing Editor  
Exceptional Child Center  
UMC - 68  
Utah State University  
Logan, Utah 84322  
*Quarterly; Information, research, and reports of innovative practices applicable to educational technology.*

Personal Computing  
Hayden Publishing Company  
10 Mulholland Drive  
Hasbrouck Heights, NJ 07604  
School Tech News  
\$32.95/yr.

Education News Service  
P.O. Box 1789  
Carmichael, CA 95609  
916/483-6159  
916/488-4623  
*7 issues/yr, Sept-May; yearly index. Articles, news briefs, new products and resources, software evaluations.*

Computer Review-For Apple Users in Speech and Hearing  
\$24.95/yr.  
P.O. Box 1139  
State College, PA 16804  
*Monthly newsletter. Tips and tricks, software evaluation, articles, question-and-answer column.*

Computers and the GT Student  
Creative Computer Enterprises  
3002 Roanoke Circle  
LaFayette, IN 47905  
*Quarterly; software reviews, articles, Q & A column, classroom management tips and hints.*

SIG Bulletin  
135 Education  
University of Oregon  
Eugene, OR 97403  
*Quarterly; is a forum for ICCE special interest groups to exchange information. One SIG is the SIGSPED - for Special Education.*

Computers and Complex Thinking Newsletter  
Janice Patterson  
National Center in Effective Secondary Schools  
School of Education, University of Wisconsin-Madison  
1025 West Johnson Street  
Madison, WI 53706  
608/263-4200

Heath  
Closer Look Resource Center  
Box 1492  
Washington, DC 20013  
202/833-4707

Software in the Classroom, A Newsletter for Social Studies Teachers  
John Ruggiero  
Free  
Focus Media, Inc.  
839 Stewart Avenue  
P.O. Box 865  
Garden City, NY 11530  
800/645-8989  
516/794-8900 (NY)  
*Quarterly.*

Update  
ERIC  
Council for Exceptional Children  
1920 Association Drive  
Reston, VA 22091  
703/620-3660  
*Semi-annual*

Rehab Brief  
PSI International  
200 Little Falls Street  
Suite 104  
Falls Church, VA 22046  
*Monthly newsletter each focusing on a specific topic*

The Compu-Tech Connection  
Research and Training Center  
Stout Vocational Rehabilitation  
School of Education & Human Services  
University of Wisconsin-Stout  
Menomonie, WI 54751  
*Quarterly newsletter; Product and resource descriptions.*

Disabled USA  
President's Committee on Employment of the Handicapped  
1111 20th Street NW  
Washington, DC 20210  
202/653-5044

Communicating Together  
Blissymbolics Communication Institute  
350 Rumsey Road  
Toronto Ontario, Canada M4G 1R8  
416/424-3806  
*Communicating Together is a quarterly journal published by the Blissymbolics Communication Institute. Application of Blissymbols and information useful in implementing all augmentative communication systems are provided.*

International Rehabilitation Review  
432 Park Avenue South  
New York, NY 10016  
212/869-0460  
*Quarterly.*

The Advocate  
NSAC  
1234 Massachusetts Avenue NW  
Suite 1017  
Washington, DC 20005  
202/783-0125  
*Contains current information relating microcomputers to the teaching of autistic children. Also lists information concerning conferences relating to computers and autism.*

Journal of Learning Disability  
5613 W. Cermak Road  
Cicero, IL 60650  
*Includes section on computers in the schools.*

Current Expressions  
Prentke Romich Company  
1022 Heyl Road  
Wooster, OH 44691  
*Quarterly; Product information, articles on system users.*

Augmentative and Alternative Communication  
Williams and Wilkins  
428 E. Preston Street  
Baltimore, MD 21202  
*Journal focuses on non-verbal communication, integration theory, technology, systems development, assessment, treatment and education of alternative systems users.*

## Appendix A: Additional Sources of Information

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### ALS Association Newsletter

ALS Association

Box 5951

Sherman Oaks, CA 91403

818/990-2151

*Contains summaries of available computer-assisted communication appliances and devices. New developments in the computer-assisted communication field are covered in each issue.*

### Communi-Collegist

Callier Center for Communication Disorders

1966 Inwood Road

University of Texas

Dallas, TX 75225

214/783-3000

*Provides current information on augmentative communication materials, equipment, and literature.*

### Assistive Devices News

Pennsylvania Assistive Device Center

Elizabethtown Hospital and Rehabilitation Center

Elizabethtown, PA 17022

717/367-1161

*Monthly; Provides product information, announcements, and conference reports. Focuses on augmentative communication, and includes information on computer access peripherals.)*

### Communication Outlook

Circulation Manager

Michigan State University

405 Computer Center

East Lansing, MI 48824-1042

517/353-0870

*Quarterly; Focuses exclusively on communication aids and techniques.*

### Developmental Equipment Newsletter

981 Winnetka Terrace

Lake Zurich, IL 60047

312/438-3476

*Product updates on augmentative communication and computer access devices; articles sharing useful equipment applications.*

### Blindness and Vision Impairments

*See Information Resources on Access to Computers for Blind and Visually Impaired.*

### Deafness and Hearing Impairments

*See Information Resources for the Deaf*

## Networks, Bulletin Boards and Databases

This is a summary of databases and computerized networks of interest to people with disabilities and those working with them. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Robotics Information (BRS)

EIC/Intelligence, Inc.  
48 West 38th Street  
New York, NY 10018  
212/944-8500

*Database with journals, books, technical reports, and conference proceedings dealing with robotics.*

### On-Line Microcomputer Guide and Directory (BRS)

On-Line, Inc.  
11 Tannery Lane  
Weston, CT 06883  
203/227-8466

*Database with listings of software, including descriptives, reviews, and producer comment. No game/entertainment software.*

### 4 Sights Network

National Information System for the Visually Impaired  
16625 Grand River  
Detroit, MI 48227  
313/272-3900

*Teleconferencing, bulletin board, and database for blind persons and those working with them. Database information is available on rehabilitation resources, public policy, calendar of events, software descriptions and reviews, a multihandicapped blind conference, specialized training facilities, low vision, job exchange, technological aids and assistive devices, and occupational information.*

CompuServe  
P.O. Box 20212  
5000 Arlington Centre Blvd.  
Columbus, OH 43220  
800/818-8199

*A nationwide database with bulletin boards that provide information on handicapped persons, issues, technology, and statistics, among other things.*

### KendallNET

Kendall Demonstration Elementary School  
800 Florida Avenue NE  
Washington, DC 20002  
202/651-5260 (voice or TDD)

*A computer network developed specifically for schools and programs serving hearing impaired students. Electronic bulletin boards on new hardware, solutions to technical problems, what works well with deaf students, discussions of trends. An educational software clearinghouse listing programs in use or under evaluation at KDES or other schools and programs for the deaf. Electronic mail system, computer pen pal project.*

### ARTN (Advanced Rehabilitation Technology Network)

ACS Medicom  
25825 Eshelman Avenue  
Lomita, CA 90717

*A network for rehab centers in N. America designed and managed by ACS Medicom. Intended to provide a key to more effective use of all rehab databases. Information is available on research & technical information, product information & test results, funding, legislative/legal efforts, education, employment. As well as electronic mail and data, ARTN stations will be able to run and use any program on the fileserver (e.g., Lotus 1-2-3 and dBase III Plus, etc.). 25 around one sites began using ARTN in June 1986.*

### AppleCider BBS

Greg Trobaugh  
39-44 24th Street, Apt. 3B  
Long Island City, NY 11101  
718/482-0088 (voice)  
718/482-0089 (modem)

*A bulletin board service designed to provide support to all computer users, with special emphasis on making information available to disabled persons regarding the use of the computer for productive work and rehabilitation.*

CTG Solutions  
Closing the Gap  
P.O. Box 68  
Henderson, MN 56044  
612/248-3294

*A database with information on computer technology for persons with disabilities. Information on hardware, software, publications, organizations, and practices/procedures is available at a cost of \$10.00 per inquiry. Annual membership fee will be initiated in October, 1986. Mail or phone inquiries; operator sends a printed document.*

CompuHelp  
National Association of Blind and Visually Impaired  
Computer Users  
P.O. Box 1352  
Roseville, CA 95661-1352  
916/786-3923, modem  
916/783-0364, voice

*A menu-driven database and bulletin board for use by blind and visually impaired computer users. Information on hardware, software, publications in braille or tape, self-help groups, blind computer user groups, etc. No charge; \$10.00/year donation is requested. 24 hours per day.*

Logo Class Penpal Network  
Ruffner Hall  
University of Virginia  
Charlottesville, VA 22903  
804/924-3332

*The network matches participating Logo teachers and their classes with other counterparts from around the U.S., Canada, or overseas, by grade level, Logo experience, interests, and computer compatibility.*

Rare Disease Database  
WORD  
Box 8293  
New Fairfield, CT 06812  
203/746-6518

*This is a searchable database on CompuServe, accessible with a PC and a modem. Contains health related information with resources that can be contacted for further assistance.*

CompuServe  
(1) HUD (Handicapped User's Database)  
Rear 4  
Furry Court  
Lancaster, OH 43130

The Disability Forum  
Daveed Mandell  
P.O. Box 3557  
Berkeley, CA 94703  
*Information sharing, experience sharing. Also The Mainstream Center, Round Hill Road, Northhampton, MA 01060-2199.*

Rural Rehabilitation Technologies Database  
University of North Dakota  
Medical Center, Rehabilitation Hospital  
Box 8202

Grand Forks, ND 58202  
701/780-2489

*This organization maintains a database containing information about technological devices of interest to disabled people.*

Tech-Net  
Psi-Tech Program  
Concepts for Independent Living  
Operations Center  
2203 Airport Way South  
Suite 310  
Seattle, WA 98134  
206/343-0670

*A nationwide information network for the disabled community. Four available databases service referral, equipment exchange, publication referral and talent registry (able-bodied volunteers). Planned database: civil/legal rights, peer interest groups, open bulletin board for information sharing.*

JAN (Job Accommodation Network)  
P.O. Box 468  
Morgantown, WV 26505  
304/293-7186 (general information)  
800/526-7234

*A computerized catalog of solutions to accommodate functional access limitations in work environments. It was developed to promote the hiring and advancement of people with organizations.*

ABLEDATA  
National Rehabilitation Information Center  
The Catholic University of America  
4407 Eighth Street NE  
Washington, DC 20017  
202/635-6090

*A computerized listing of commercially available products for rehabilitation and independent living.*

Accent on Information  
P.O. Box 700  
Bloomington, IL 61701  
309/378-2961

*A computerized product database organized by categories of equipment and by disability function.*

**ADDS (Assistive Device Database System)**  
American International Data Search, Inc.  
2326 Fair Oaks Boulevard  
Suite C

Sacramento, CA 95825  
800/275-8700

800/223-2437 (California residents)

*A source of information on adaptive equipment programs and other resources. Requests can be made via computer, mail, or the toll free number.*

**AdvocNet**

The National Center for Research in Vocational Education  
Ohio State University  
1960 Kenny Road  
Columbus, OH 43210  
800/848-4815

614/486-3655 (in Ohio)

*A communications network for vocational educators; includes The Vocational Education Special Needs Newswire.*

**CONFER**

Blissymbolics Communication Institute  
350 Rumsey Road  
Toronto, Ontario M4G 1R8  
406/424-3806

*A computer conferencing network that enables users to establish and participate in technology-related forums and conferences regarding individuals.*

**CRISP (Computer Retrieval of Information on Scientific Projects)**

National Institute of Health  
Westwood Building, Room 148  
5333 Westbard Avenue  
Bethesda, MD 20205  
301/496-7543

*A scientific base of information developed from recent government health research.*

**BDIS (Center for Birth Defects Information Services)**

171 Harrison Avenue  
Boston, MA 02111  
617/956-7400

*A computerized database of articles, diagnostic test cases, and an undiagnosed birth defects registry.*

**National Computer Bulletin Board Directory**

Thomas Wnorowski  
\$2.00

3352 Chelsea Circle  
Ann Arbor, MI 48104

*Lists more than 1400 bibliographies.*

**CUSSNet (Computer Use in Social Services Network)**  
Division of Social Work  
East Carolina University  
Greenville, NC 27834

*Computerized inventory of commercially available and public domain human services software. One component specializes in info on computers and handicapped users. Classification by special interest group available. Local and national bulletin boards, downloading of public domain software, skills bank, special interest groups. Teaching materials, reports, literature concerned with the education of disabled children and adults.*

*OR: Dick Schoech, School of Social Work, University of Texas at Arlington, P.O. Box 19129, Arlington, TX 76019.*

**DEAF-NET**

SRI International  
333 Ravenswood Avenue  
Menlo Park, CA 94025  
415/859-2236

*A computer network designed for but not limited to the hearing impaired.*

**EIES (Electronic Information Exchange System)**

Computerized Conferencing and Communications Center  
New Jersey Institute of Technology  
323 High Street  
Newark, NJ 07102  
201/641-5321

*Currently investigating the use of the EIES System to allow people with disabilities, the homebound, and senior citizens to communicate among themselves and with others.*

**ECER, ERIC (Educational Resources Information Center)**

Council for Exceptional Children  
1920 Association Drive  
Reston, VA 22091  
703/620-3660

*ECER is the ERIC database. It has educational materials (including special education), reports, bibliographic information, available via computer, microfiche, or paper copy.*

**HELPNET**

Special Education Software Center  
Building B, Room S312  
333 Ravenswood Avenue

Menlo Park, CA 800/435-7639 (access) (except Alaska and Hawaii)

800/223-2711 (technical information)

800/327-5892 (software information)

*On-line access to the Special Education Software Center. With a modem and telecommunications software, the center can be contacted via a toll-free number. Future plans include bulletin boards where software subroutines developed as a part of technical assistance activities are made available. No charge.*



### HEX

(Handicapped Education Exchange)

11523 Charlton Drive  
Silver Spring, MD 20902  
301/681-7372

*A computerized bulletin board available through the public telephone network. Free services are offered for those involved in the education of the handicapped.*

### NTIS (National Technical Information Service)

Department of Commerce  
5285 Port Royal Road  
Springfield, VA 22161-2200  
703/487-4600 general information  
703/487-4642 computer searches  
703/487-4640 documents

*A leading source for government research and reports. Data searches on topics are published and available for order.*

### UNET

The M.U.S.E. User's Network  
Western Illinois University  
Macomb IL 61455  
309/298-2257

*An electronic bulletin board for computer users, program developers, and educators; information on computer use in special education, forum for information and idea sharing, and access to public domain software relevant to the field. On-line 24 hours/day, 7 days/week. No membership charge.*

### Well-Net

(CHIP - Community Health Information Project)  
222-C View Street  
Mountain View, CA 94141  
415/968-8798  
415/968-1126

*A nationwide electronic bulletin board for the disabled. No membership fee.*

### NARIC (National Rehabilitation Information Center)

See ABLEDATA

### REHABDATA

See ABLEDATA

### Specialnet

National Association of State Directors of Special Education  
2021 K Street NW, Suite 315  
Washington, DC 20006  
202/296-1800

*This network features telephone access, electronic mail, bulletin and data collection in the area of special education.*

### Center for Special Education Technology

Technology Information Exchange  
Council for Exceptional Children  
1920 Association Drive  
Reston, VA 22091

800/345-8324  
703/620-3660

*Two electronic bulletin boards offering news about special education technology and information from other special educators. Information is primarily on how the technology is used, rather than on the products. Information and fact sheets available at no charge.*

### LINC Resources, Inc.

3857 N. High Street  
Columbus, OH 43214  
614/263-5462

*A computerized database of the software for instruction, personal assistance, administration, and testing. Free searches.*

### Microcomputer Education Applications Network

256 North Washington Street  
Falls Church, VA 22091  
703/536-2310

*An information exchange network for special educators.*

### TRAIN

Suite 101  
Neshaminy Plaza 11  
Bensalem, PA 19020  
215/639-1513

*A database of testing, training resources, assessment, and workshop materials used in special education. Inservice Network for professionals in special education.*

### Sources of Additional Information

The Complete Handbook of Personal Computer  
Communication: Everything You Need to Know to Go Online  
with the World  
St. Martin's Press  
175 5th Avenue  
New York NY 10010  
212/677-5151

### Online Databases that Include Rehabilitation Information

Sharon McFarland  
NARIC  
The Catholic University of America  
4407 Eighth Avenue NE  
Washington, DC 20017  
202/635-5822



## Associations/Advocacy Groups/Self-Help Groups

The groups and organizations listed below are concerned with the education, rehabilitation, and employment of severely disabled individuals. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

American Academy for Cerebral Palsy and Developmental Medicine  
2315 Westwood Avenue  
P.O. Box 11083  
Richmond, VA 23230  
804/355-0147

*Professional organization concentrating on the latest developments in the treatment of cerebral palsy.*

Association for the Development of Computer-Based Education and Training  
Washington University  
Miller Hall 409  
Bellingham, WA 98225  
206/676-2860

*Association for professionals involved in computer-based education and training. Membership benefits include annual conference, newsletter, quarterly journal and local chapters.*

American Occupational Therapy Association  
1383 Piccard Drive  
Rockville, MD 20850  
301/948-9626

*AOTA is a nationwide organization of professionals concerned with all aspects of the occupational therapy field. The organization publishes the American Journal of Occupational Therapy.*

ASHA (American Speech-Language-Hearing Association)  
10801 Rockville Pike  
Rockville, MD 20852  
301/897-5700

*ASHA is involved in a number of different applications of computer technology, including administration, clinic, therapeutic, educational, and research.*

Center for Computer Assistance to the Disabled (C-CAD)  
P.O. Box 314  
Hurst TX 76053  
817/273-2084

Association of Electronic Cottagers  
677 Canyon Crest Drive  
Sierra Madre, CA 91024

*Organization designed to support people who work in their homes with personal computers. Members can obtain marketing assistance and business consultation. Information can be obtained through CompuServe.*

Association of Computer Educators, Inc.  
751 Band Avenue  
Staten Island NY 10310  
718/596-5708

*New York state area. Facilitates information sharing, promotes equitable use of computers by all students.*

BMUG  
\$40/year, includes bi-annual newsletter, help-line  
1442 A Walnut Street #62  
Berkeley CA 94709  
*Macintosh Users Group; one of the Group's SIGs is concerned with educational applications.*

Boston Computer Society  
1 Central Plaza  
Boston MA 02108  
617/367-8080

California Governor's Committee for Employment of the Handicapped  
800 Capitol Mall  
Sacramento CA 95814  
916/323-2545

Committee on Personal Computers and the Handicapped (COPH-2)  
2030 W. Irving Park Road  
Chicago IL 60618  
312/728-9879  
312/477-1813  
*Information and technical consultation.*

## Appendix A: Additional Sources of Information

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Community Health Information Project (CHIP)  
222C View Street  
Mountain View CA 94041  
415/968-8798

CompuNet  
Robert Mauro  
Disability News OnLine  
257 Center Lane  
Levittown, NY 11756  
*Support network for employed, disabled men and women who use computers to earn a living.*

Connecticut Parent Advocacy Center  
Mohegan Community College  
Norwich, CT 06360  
203/836-5250  
*This organization acts as a referral agency for people needing information about services for handicapped people.*

Coordinating Council for Handicapped Children  
220 South State Street  
Room 412  
Chicago, IL 60604  
312/939-3513  
*Provides training programs on special education rights and services for parents and professionals.*

Council for Exceptional Children  
1920 Association Drive  
Reston, VA 22091-1589  
703/620-3660  
*The major national association of special education teachers, administrators, and university students training to be teachers. Publishes Exceptional Children and Teaching Exceptional Children.*

Council on Assistive Devices and Listening Systems  
P.O. Box 32227  
Washington, DC 20007  
*The primary goal of this organization of manufacturers and distributors is to alert the general public to ways in which electronic devices and systems can help hearing impaired persons cope more effectively with their disability.*

Disabled Interest Group of the San Diego Computer Society (DIGSIG)  
Milton Blackstone  
1301 Dell Crest Lane  
La Jolla CA 92037  
619/459-8255

Easter Seal Systems  
2023 W. Ogden  
Chicago, IL 60612  
312/243-8400  
*This organization sponsors grants for software development for disabled persons, and is developing regional adaptive device centers. Provides education, training, and discounts on selected computer systems.*

Federation for Children with Special Needs  
312 Stuart Street  
Second Floor  
Boston, MA 02116  
517/482-2915  
*Coalition of parent organizations offering technical assistance and resource information on children with various disabilities.*

FIGHT (Family Interest Group - Head Trauma), Inc. Library  
1370 Wellesley Avenue  
St. Paul, MN 55105  
612/478-6477  
*Offers advice, information, and materials (for a returnable deposit) on head trauma, rehabilitation, medical care, and adaptive lifestyles.*

Georgia Computer Programmer Group  
2201 Glenwood Avenue SE  
Atlanta, GA 30316  
404/894-3972  
404/874-8371

Iowa Computer-Assisted Rehabilitation Group (ICARG)  
Mr. Jim Borchard  
Northgate Manor  
Waukon IA 52172

ISAAC (International Society for Augmentative and Alternative Communication)  
P. O. Box 1762  
Station R  
Toronto, Ontario M4G 4A3  
416/424-3806  
*An information and referral organization for individuals concerned with and/or working with communication disorders. Publishes Communication Outlook and Augmentative and Alternative Communication.*

LIFT, Inc.  
350 Pfingsten  
Suite 303  
North Brook IL 60062  
312/564-9004  
*Not-for-profit contract programming company that identifies, trains, and hires physically handicapped individuals for major corporations.*

**Muscular Dystrophy Association**  
810 7th Avenue  
New York, NY 10019  
212/586-0808  
*Local chapters, clinics, referral services. Bimonthly newsletter, quarterly publication.*

**Music Therapy Association**  
25 Gelston Avenue  
Brooklyn, NY 11209  
718/745-9231  
*Provides services for disabled people interested in computer-generated music systems. Services include consulting and system set-up.*

**NAHSA (National Association of Hearing and Speech Action)**  
10801 Rockville Pike  
Rockville, MD 20852  
301/897-5700  
*A consumer advocacy group for speech and hearing impaired persons and for deaf persons.*

**National Down Syndrome Congress**  
1800 Dempster  
Park Ridge, IL 60068  
312/823-7550  
*An organization of parents and professionals that provides information on services for persons with Down Syndrome.*

**National Head Injury Foundation, Inc.**  
P.O. Box 567  
Framingham MA 01701  
617/879-7473

**National Parent Chain, Inc.**  
867C High Street  
Worthington, OH 43805  
614/431-1911  
*This organization operates a SpecialNet Bulletin Board dedicated to information about special education.*

**National PC Vis. Users Group**  
1504 E. 71st Place, #1308  
Tulsa OK 74136  
918/492-0511  
*Or 130 Hosmer Drive, Syracuse NY 13209, phone 315/635-9209*

**National Spinal Cord Injury Association**  
149 California Street  
Newton, MA 02158  
617/964-0521  
*Provides information or referrals for the direct care of para- or quadriplegic persons. Publishes a variety of materials for rehabilitation professionals and persons with spinal cord injuries.*

**NSAC (National Society for Children and Adults with Autism)**  
1234 Massachusetts Avenue NW  
Suite 1017  
Washington, DC 20005  
202/783-0125  
*NSAC is a national service and advocacy organization for people with autism. Special services are offered on a local level as well as public policy advocacy and information and referral services being offered on a national scale. This organization provides information relating to computers and autistic children.*

**Ohio Coalition for the Education of the Handicapped**  
933 High Street  
Suite 200-H  
Worthington, OH 43085  
614/431-1307  
*Currently developing a statewide database of agencies serving handicapped children.*

**PACER**  
4826 Chicago Avenue South  
Minneapolis, MN 55417  
612/827-2966  
*PACER provides information, training and assistance to parents of handicapped children. Advice is offered in the areas of appropriate education and interpretation of legal rights.*

**Quadriplegics Communications Group, Inc.**  
407-333 Stradbroke  
Winnipeg Manitoba R3L 0J5

**SIGSPED**  
International Council for Computers in Education  
1787 Agate Street  
Eugene OR 97403-1923  
503/686-4414  
*Special interest group for computers in special education.*

**Special Interest Group for Computers and Physically Handicapped (SIGCAPH)**  
c/o Association for Computing Machinery  
11 West 42nd Street  
New York NY 10036  
*Karen Anderson, Director; Rochester, NY, 716/427-1834*

**TASH (The Association for Persons with Severe Handicaps)**  
7010 Roosevelt Way NE  
Seattle, WA 98115  
206/523-8446  
*Offers information on severe-profound handicaps (particularly severe retardation). Maintains an extensive bookstore of books and papers regarding persons with severe handicaps. Produces assistive devices.*

## Appendix A: Additional Sources of Information

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### The ALS Association

Box 5951

Sherman Oaks, CA 91403

818/990-2151

*This national organization acts as a referral service for computers and computer assisted communication devices to ALS patients. Most such patients depend on computers to enable them to communicate with others.*

### The Disabled Children's Computer Group

Fairmont School

724 Kearny Street

El Cerrito, CA 94530

415/528-DCCG

### VIEWPOINT

c/o Physically Handicapped Training Center

University of Pennsylvania

Philadelphia PA 19104

215/898-8108

### Washington Apple Pi

8227 Woodmont Avenue

Suite 201

Bethesda, MD 20814

301/654-8060

*Organization of Apple computer users who meet and discuss all aspects of Apple computers. Many of the topics are applicable to disabled individuals. The organization publishes Washington Apple Pi Journal.*

## Training Programs in Technology in Special Education

This list contains information on both degree programs and workshop/training opportunities in the area of computer applications for disabled persons. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

ACTT Curriculum (Activating Children Through Technology)  
27 Horrabin Hall  
Western Illinois University  
Macomb, IL 61455  
309/298-1014

*Project ACTT was a model demonstration project funded in 1983 to develop a microcomputer curriculum model for ages birth-6. The computer was added to the existing setting to foster a sense of autonomy and control over the environment through environmental control, used as a communication device, as a tool to draw or write, and as a teaching device. Adaptive peripherals allowed several handicapped children to be part of group of activities, and it was found that social interaction was equalized somewhat by computer use in small and large groups.*

Carroll Center for the Blind  
770 Centre Street  
Newton, MA 02158-2597

*Annual summer training program for special educators (introduction to computers and access devices, access devices for the Apple, access devices for the IBM) and blind teenagers (word processing).*

Center for Learning & Technology  
State University of New York at Buffalo  
217 Baldy Hall  
Buffalo, NY 14260  
716/636-2110

*Incorporates an interdisciplinary approach to integrating new technology into education. Goals include investigating fundamental questions, constructing prototypes and establishing relationships between industry and education.*

Computer and Information Science Department  
University of Massachusetts  
A305 Graduate Research Center  
Amherst, MA 01003  
413/545-2744

*Conducts research in design of single-switch scanning systems. Involved in the development and application of microcomputer programs for single-switch scanning. Evaluates software systems for the disabled.*

Computer Resource Center  
207 N. San Marco Avenue  
St. Augustine, FL 32084  
904/824-1654, ext. 581

*Provides computer training and technical support to teachers of blind students and teachers of deaf students.*

Department of Special Education  
Charles A. MacArthur, Ph.D.  
University of Maryland  
College Park, MD 20742  
301/454-6921

*Computer technology in special education doctoral program.*

Department of Special Education  
Dr. Jean Fleischner  
Dr. Robert Kretschmer  
Box 223  
Teachers College  
Columbia University  
New York, NY 10027  
212/678-3880

*In cooperation with the College's Department of Communication, Computing, and Technology in Education, an M.A. in Learning Disabilities or Ed.D. in Special Education, involving the application and development of technology.*

Department of Special Education  
University of Arkansas-Little Rock  
33rd and University  
Little Rock, AR 72204  
501/569-3335

*Teaches future rehabilitation and special education professionals computer use for a wide range of purposes. Involved in a variety of research projects, particularly regarding the use of bar code technology.*

## Appendix A: Additional Sources of Information

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Division of Rehabilitation Services (TN)  
400 Deaderick Street  
Suite 1100  
Nashville, TN 37219  
615/741-5644

*The division is on-line with SpecialNet, RehabNet, DeafNet, SCAN, HEX, and ABLEDATA. It provides statewide staff training in the uses of microcomputers in rehabilitation for vocational rehabilitation counselors.*

Education Division  
Johns Hopkins University  
100 Whitehead Hall  
Baltimore, MD 21045  
301/338-8273

*Johns Hopkins offers both a Masters and a Doctoral program in Special Education Technology. The Education Division conducts research on integrating microcomputers into the special education classroom.*

Gallaudet College  
Mrs. Karen Simpson  
Graduate Admissions Counselor  
800 Florida Avenue NE  
Washington, DC 20002  
202/651-5070  
800/672-7620, etc. 5070

*Master of Science in Educational Technology: Special Education/Deafness.*

Institute on Learning-Based Tools for Special Populations  
University of Virginia  
Charlottesville, VA 22903  
804/924-7107

*The Institute was held June 16 - July 5, 1986. Activities to enhance use of computer applications and technology in special education and clinical settings included use of learner-based software such as 1000, MPAL (a LOGO-like language which permits use of interactive videodisk, speech synthesizer and animation), PC Storyboard, and Listen to Learn (a talking word processor). Participants have the use of a computer and modem during the following year to exchange ideas and information.*

Lesley College Graduate School  
Rebecca Corwin, Assistant Professor  
Computers and Education: Focus on Learners with Special Needs

Division of Education and Special Education  
29 Everett Street  
Cambridge, MA 02238  
617/868-9600, ext. 371

*Courses blend theoretical and field-based work; Master's Degree or Certificate of Advanced Graduate Study. Program includes introductory level programming languages, software evaluation, applications for special needs learners, and curriculum integration.*

M.U.S.E. Trainer Project  
(Microcomputer Use in Special Education)  
27 Horrabin Hall  
Western Illinois University  
Macomb IL 61455  
309/298-1072

*M.U.S.E. is designed to give participants expertise to take advantage of technology and the ability to train others in the use of computers with disabled persons. The 7 graduate level courses include: Microcomputer Applications in Education; The Young Child-Learning with technology; Microcomputer Technology in the Elementary & Middle Schools; Modification of Microcomputers for Children or Special Needs; Rehabilitation Application of Microcomputers by the Handicapped; Seminar in Instructional Strategies; Practicum in Training Teachers to Use Microcomputers; Modification of Microcomputers for Children with Special Needs; Field Practicum in Technology Applications-Rehabilitation of Adults.*

Micro Abilities  
98 Main Street  
Suite 232  
Tiburon, CA 94920  
415/435-2966

*Offers training to education and rehabilitation professionals and provides appropriate computer-related devices to work directly with clients. Assists disabled people with independent living skills.*

Microcomputer Resource Center  
St. Martin's College  
Lacey, WA 98503  
206/438-4334

*Provides the opportunity for educators and others to review and evaluate different computer systems, software and other instructional materials. A variety of classes are offered related to new uses of technology.*

**Project M.U.S.E.**  
27 Horrabin Hall  
Western Illinois University  
Macomb, IL 61455  
309/298-1634  
309/298-1014

*Project M.U.S.E. is a federally funded program with the primary purpose of training special education teachers to use computers in their classrooms. M.U.S.E. also identifies, evaluates and catalogs hardware and software that is designed for or can be modified for use with handicapped children. UNET is the user's network for information sharing, questions-and-answers, or problem solving. Workshops/presentations/training can be arranged. Possible topics include: Microcomputer Use and the Handicapped Child; Bits and Bytes for Babies; Introduction to Logo; Software Evaluation; Adapting Peripherals; Using Switches with Handicapped Children; Integrating the Microcomputer in the Classroom; Learning from Computer Games; Word Processing; Computers as a Third Wave Tool.*

**Rehabilitation Research and Training Center**  
University of Oregon  
217 Clinical Services Building  
Eugene, OR 97405  
503/686-3585

*Administers the "Community Living" Bulletin Board on SpecialNet. Develops interactive video for mildly handicapped individuals. Organizes the local Special Interest Group for Special Educators of ICCE.*

**Resource Center**  
Colorado Easter Seal Society, Inc.  
609 W. Littleton Blvd.  
Littleton, CO 80120  
303/795-2016

*Offers a variety of computer services for disabled people, including computer camps, workshops for disabled individuals, teachers and therapists, and information on computers and adaptive equipment.*

**Selective Systems for Living**  
2500 Riverside Avenue  
Minneapolis, MN 55454  
612/375-0153

*Provides workshops on special input devices, environmental control devices and word processing. Assists clients in procuring systems. Working to link handicapped people to computers and employment.*

**SETUP**  
Special Education Technology Users Project  
3430 Leahi Avenue  
Honolulu, HI 96815  
803/737-2377

*SETUP is a federally funded project that trains special education teachers in the state of Hawaii to utilize the computer as a tool for computer managed instruction and computer assisted instruction.*

**Special Education Technology Resource**  
Emmanuel College Library  
Third Floor  
300 The Fenway  
Boston, MA 02115  
617/232-7913

*The center maintains a software lending library, model adaptive hardware learning lab, and a variety of teacher training opportunities for special educators.*

**Easter Seal Children's Center**  
3161 Maple Drive, NE  
Atlanta, GA 30305  
404/261-6262

*Offers advice and training for computer use with pre-school handicapped children. Includes diagnostic services for students regarding computers, peripherals and appropriate software.*



## Computer Assessment/Training Programs for Disabled Individuals

This list contains information on programs and organizations that provide training for disabled persons involving the use of computers. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

Cerebral Palsy Foundation of South Arizona  
4710 E. 29th DAC W.  
Tucson, Arizona 85711  
602/747-6809

*Involves basic remediation and rehabilitation, vocational counselling and research on the use of technology with individuals with severe and profound handicaps.*

Florida Diagnostic Learning Resources Services (FDLRS)  
9220 SW 52 Terrace  
Miami, FL 33165  
305/274-3501

*Offers diagnostics for computer compatibility for disabled people, inservice training, computer information resources, as well as software and hardware evaluation.*

Du Page Easter Seal Treatment Center, Inc.  
830 S. Addison  
Villa Park, IL 60181  
312/620-4433

*The center specializes in the use of personal computers in therapy.*

Adaptive Computer Technology Center  
Kennedy Memorial Hospital  
30 Warren Street  
Brighton, MA 02135  
617/254-3800

*Utilizes and provides instruction in the use of computer-based technology to enhance learning, leisure, communication, prevocational skill development, independent living, and environmental control.*

John A. Coleman School  
New York Foundling Hospital  
1175 Third Avenue  
New York, NY 10032  
212/472-3322, ext. 629

*The School uses computers daily with multiply handicapped children (ages 1-10) to achieve a variety of basic educational goals.*

Sister Kenny Institute  
800 E. 28th Street at Chicago Avenue  
Minneapolis, MN 55407  
612/874-4175

*This organization uses computer programs to provide language and cognitive therapy to adults with neurologic injuries.*

Living Systems/ITD  
2160 S. Lamar  
Oxford, Mississippi 38655  
601/234-0158

*Has a microcomputer laboratory equipped to evaluate and to develop hardware and software which will provide capability to disabled individuals.*

Rehabilitation Institute of Ohio  
Miami Valley Hospital  
One Wyoming Street  
Dayton, OH 45409  
513/220-2063

*The Institute uses computers to help brain injured individuals make maximum use of their abilities. Focus is on cognitive and linguistic retraining using microcomputers as therapeutic tools.*

Yankton Area Adjustment Training Center  
909 W. 23rd Street  
Yankton, SD 57078  
605/665-2518

*Provides computer-assisted learning on the Apple IIe for area special education students. Focus includes job skills, job readiness skills, math skills, time and money skills, pedestrian safety, and motivation.*

Technical Resource Center  
1820 Richmond Road SW  
Calgary, Alberta, Canada T2T 5C7  
403/229-7875

*Provides information and one-month loan of devices in the areas of adaptive toys, communication aids, daily living aids, inventory control and microcomputers. It offers assessment and consultation.*



Sunny Hill Hospital for Children  
3644 Slocan Street  
Vancouver, British Columbia V5M 3E8  
604/434-1331

*Offers assessment and training of physically disabled children for access to microcomputers for education, recreation, and communication.*

Valpar International Corporation  
Box 5767  
Tucson, AZ 85703  
602/293-1510

*Develops assessment equipment used by professionals for working with people with various disabilities. Offers vocational assessment using microcomputers.*

Resources for Living Independently Center  
4721 Pine Street  
Philadelphia, PA 19143-1809  
215/471-2265, 2266  
215/471-2267 (TDD)

*Provides computer training to disabled consumers as one of its services.*

Pearson Society for Assessment and Computer Training  
700 West 57th Avenue  
Vancouver, BC CANADA V6P 1S1  
604/321-3231

*Three main objectives: provide assessment of aptitude and compatibility with computers, provide intensive training on the IBM-PC, and teach job search skills and provide employment assistance.*

Orange County Department of Education  
200 Kalmus Drive  
Costa Mesa, CA 92626  
714/966-4140

*The Educational Technology/Special Schools' goal is to provide opportunities for students to learn how to become more independent in their present and future environments.*

Electronic University  
TeleLearning Systems, Inc.  
505 Beach Street  
San Francisco, CA 94133  
415/928-2800

*Offers home courses (including tutoring) on personal improvement, business and professional skills, and credit/degree programs via computers. Provides counseling, an electronic library and a seminar series.*

Los Angeles Unified School District  
15530 Hesby  
Encino, CA 91436  
818/997-2330

*Provides microcomputer training to special education students. Computers are adapted to meet individual special needs. Emphasis is on vocational, recreational, and/or independent living skills.*

Disabled Programmers, Inc.  
P.O. Box 23118  
San Jose, CA 95153  
408/629-3700

*DPI is an organization that trains disabled individuals to become computer programmers. DPI's Micro Applications Development Lab develops and designs adaptive devices.*

BIPED Corporation (Business Information Processing Education for the Disabled)  
26 Palmer's Hill Road  
Stanford, CT 06902  
203/324-3935

*Teaches computer programming to physically disabled individuals at two different locations (Stanford, CT, and White Plains, NY). Courses available tuition free to disabled individuals.*

LIFT, Inc.  
350 Pfingsten  
Suite 103  
Northbrook, IL 60062  
312/564-9005

*Offers help and training in hiring handicapped individuals as computer programmers.*

Project Cable  
Carroll Center for the Blind  
770 Centre Street  
Newton, MA 02158-2597  
617/969-6200

*Provides computer assessment, computer training (on adaptive devices), and software, professional training, resources (on devices), and word processing for visually impaired high school students.*

Association of Rehabilitation Programs in Data Processing  
P.O. Box 2404  
Gaithersburg, MD 20879  
301/468-6142  
*Organization offering nationwide data processing training to disabled people.*

Maryland Rehabilitation Center  
2301 Argonne Drive  
Baltimore, MD 21218  
301/366-8800, ext. 231

*Provides evaluation of computer applications best suited for enhancing a disabled person's vocation. Acts as a diagnostic resource center in setting disabled students' vocational goals.*

### Project Enhance

Minneapolis Public Schools Community Education  
1006 W. Lake Street  
Minneapolis, MN 55408  
612/348-6799

*Offers beginning computer programming and word processing classes for physically disabled adults as well as beginning computer classes for mentally retarded adults to reinforce academic skills and independent living skills.*

### Handicapped Access Center

Duluth Public Library  
520 W. Superior Street  
Duluth, MN 55802  
218/723-3809

*Trains disabled persons in the use of the Apple IIe. Applications include word processing, data base, AppleSoft Basic, Logo, etc. Product information on software, hardware, and adaptations is available.*

### L.D. College Writers Project

University of Minnesota  
216 Pillsbury Drive SE  
Minneapolis, MN 55455  
612/376-1672

*Provides training and practice in word processing to college-level learning disabled writers. Working papers on compiled research is distributed by mail at cost.*

### Federation of the Handicapped, Inc.

211 W. 14th Street  
New York, NY 10011  
212/242-9050

*The Federation trains disabled individuals in word processing and general education.*

### Compute Able Network

P.O. Box 1706  
Portland, OR 97207  
503/644-2940

*Assists individuals with various disabilities to adapt and utilize the rapid advances in computer technology.*

### STORER Computer Access Center

Cleveland Society for the Blind  
1909 E. 101st Street  
Cleveland, OH 44106  
216/791-8118

*Offers orientation, evaluation, training, engineering support and system rental to blind or visually impaired individuals. Goals are to expand access to educational and vocational opportunities through computer/print technology.*

### Variety Club

Warwick Hotel  
17th and Locust Streets  
Philadelphia, PA 19103  
215/735-0803

*This organization offers vocational and rehabilitation training on the use of microcomputers.*

### Texas State Technical Institute

Drafting and Design  
TSTI Waco  
Waco, TX 76705  
817/799-3611, ext. 3200

*TSTI offers a course in Computer Aided Drafting for physically handicapped students. The objective is to help students prepare for careers in drafting and industrial design.*

### C-CAD (Center for Computer Assistance to the Disabled)

2501 Avenue J  
Suite 100  
Arlington, TX 76001  
817/640-6613

*This is an organization that provides computer training and job placement for disabled persons.*

### Concepts for Independent Living

2203 Airport Way South  
Suite 310  
Seattle, WA 98134  
206/343-0670

*This organization is dedicated to developing and expanding opportunities for independent living for all disabled people.*

### Computers to Help People, Inc.

1221 W. Johnson Street  
Madison, WI 53715  
608/257-5917

*Provides disabled people with vocational training in computer operation. Also sells software designed for physically disabled people.*

## Information on Adaptive Toys and Toy Modifications

The following pages contain information regarding adapted toys and toy modifications to allow single switch control. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Books and Pamphlets

Switching Mechanisms for Special Needs – A Project Manual  
William M. Lynn

\$6.50

National Clearinghouse of Rehabilitation Materials

115 Old USDA Building

Oklahoma State University

Stillwater, OK 74078

405/624-7650

*This project manual first explains how switches work by presenting basic electronics principles, and then provides step-by-step instructions for building several types of switches and accessories.*

Play: Children's Business, A Guide to Play Materials

1974

Association for Childhood Education International

Washington, D.C.: Association for Childhood Education

Homemade Battery Powered Toys and Educational Devices  
for Severely Handicapped Children

1980

Linda J. Burkhardt

8503 Rhode Island Avenue

College Park, MD 20740

More Homemade Battery Devices for Severely Handicapped  
Children with Suggested Activities

1982

Linda J. Burkhardt

8503 Rhode Island Avenue

College Park, MD 20740

Homemade Switches and Toy Adaptations for Early Training  
with Nonspeaking Persons

1984

William B. Coker, Jr.

Cincinnati Center for Developmental Disabilities

3300 Elland Avenue

Cincinnati, OH 45229

*LSHSS 15, 1, pp.32-35. (Reprints)*

Toys and Games for Educationally Handicapped Children

1969

Buist, Charlotte & Schulman, Jayne

Springfield, IL: Thomas Publishing

Technology for Independent Living Sourcebook

Alexandra Enders (ed.)

1984

RESNA

1101 Connecticut Avenue

Suite 700

Washington, DC 20036

202/857-1199

*This book contains a comprehensive listing of associations, toy libraries in each state, and manufacturers and distributors of special toys.*

Guidelines for Adapting Toys for the Physically Handicapped

Jayne Higgins

1982

California Avenue School

215 West California Avenue

Vista, CA

Touch Toys and How to Make Them

1984

\$3.00 + .60 for postage

Touch Toys

P.O. Box 2224

Rockville, MD 20852

*This is an instruction book on how to make over 100 toys for the blind. Checks payable to: Touch Toy.*

Toy Modification Note: Build-it-Yourself-Battery-Insert

G.C. Vanderheiden

1982

Trace Center

1500 Highland Avenue

S-151 Waisman Center

Madison, WI 53705

608/262-6966



## Appendix A: Additional Sources of Information

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### Strategies for Helping Severely and Multiply Handicapped Citizens

Whethered, J. Greer, R. Anderson, and S. Odle (eds.)  
1982  
University Park Press  
Baltimore, MD

### From Toys to Computers: Access for the Physically Disabled Child

C. Wright and M. Nomura  
1985  
\$17.00 (4th class), \$20.00 (1st class) Plus \$1.11 outside U.S.  
Christine Wright  
P.O. Box 700242  
San Jose, CA 95170

### Associations and Organizations

#### LEKOTEK

613 Dempster  
Evanston, IL 60201  
312/328-0001

*A non-profit resource center with specialized play materials, therapy equipment, and books for loan.*

#### ACTIVE

Play Matter/NTLA  
Seabrook House  
Darkes Lane  
Potters Bar, Herts, ENGLAND EN6 2HL

#### USA Toy Library Association (USA-TLA)

Judith Iacuzzi, Exec. Director  
1800 Pickwick Avenue  
Glenview, IL 60025  
312/724-7700  
*Toy library, information on adaptive toys, newsletter.*

### Catalogs

#### Compu-Robot

\$34.95  
Comp Tech Systems Design  
P.O. Box 516  
Hastings, MN 55033

*An audio-controlled robot. Easy-to-use, programmable, remembers up to 48 commands, 3 speed, right and left turn, u-turn, pause. Uses 4 AA-batteries.*

#### Arroyo & Associates

88-45 79th Avenue  
Glendale, NY 11385  
718/849-9306

#### Automated Therapy Systems

Harding and Harris  
P.O. Box 1599  
Orem, UT 84057

### "Active Simulation Program"

Dr. Edmond Zuromski  
Handicapped Children's Technological Services, Inc.  
P.O. Box 7  
Foster, RI 02825  
401/397-7666

*"Active Simulation Program" offer a series of technical newsletters and an equipment development manual; markets his products commercially.*

### "Special Populations Catalogue"

Flaghouse, Inc.  
18 W. 18th Street  
New York, NY 10011  
212/989-9700

### Behavioraids

Social Technology Product  
1210 Alameda Drive  
Tempe, AZ 85282

### Kaye's Kids

1010 E. Pettigrew Street  
Durham, NC 27701-4299  
919/683-1051

### A Declaration of Independence

Adaptive Aids  
P.O. Box 13178  
Tucson, AZ 85732

### Toys for Special Children

Steven Kanor, Ph.D  
101 Lefurgy Avenue  
Hastings on Hudson, NY 10706

### Zygo Industries, Inc.

P.O. Box 1008  
Portland, OR 97297-1008  
503/297-1725

### Handicapped Children's Technological Services, Inc.

P.O. Box 7  
Foster, RI 02825

### The Able Child

325 Will Street  
New York, NY 10014

## Selected Information Resources for Deaf and Hearing Impaired Individuals

The following list contains information on information resources for the deaf or hearing impaired: books and printed materials, organizations, newsletters and periodicals, and companies. Check the Additional Resources and Newsletters resource lists for further information. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Books and Other Printed Materials

**A Catalog of Captioned Educational Videotapes**  
National Technical Institute for the Deaf (NTID)  
Rochester Institute of Technology  
Division of Public Affairs, Department V  
One Lomb Memorial Drive  
P.O. Box 9887  
Rochester, NY 14623-0887  
716/475-6400

**College and Career Programs for Deaf Students**  
\$5.00 (1 to 4 copies)  
Gallaudet College  
Center for Assessment and Demographic Studies  
Kendall Green  
Washington, DC 20002  
*A guide to evaluating college programs, and information on more than 130 programs, including available support services.*

### Organizations

**Foundation for Communication for the Disabled**  
31 Southampton Row  
London, ENGLAND WC1B 5HJ  
01-405-1019

**National Technical Institute for the Deaf (NTID)**  
Rochester Institute of Technology  
Division of Public Affairs, Department V  
One Lomb Memorial Drive  
P.O. Box 9887  
Rochester, NY 14623-0887  
716/475-6400  
*The world's largest technical college for deaf students, offering the opportunity for deaf students to go to college in a hearing environment to facilitate transition to a hearing society (15,000 hearing students; 1,250 college-age deaf students). Funded by the U.S. Department of Education.*

**National Association of the Deaf**  
814 Thayer Ave.  
Silver Spring, MD 20910  
301/587-1788 (voice and TDD)

**Kelston School for Deaf Children**

Private Bag  
New Lynn  
Auckland  
Australia 874-859  
*Uses computer technology to aid language development for hearing impaired students. Provides courses in commercial applications for teenage and adult deaf students as well as parents, and acts as a resource center.*

**Alexander Graham Bell Association for the Deaf**  
3417 Volta Place NW  
Washington, DC 20007  
202/337-5220  
*National organization offering support services to deaf individuals.*

**National Information Center on Deafness**  
Gallaudet College  
800 Florida Avenue  
Washington, DC 20002  
202/651-5109  
*Provides either direct information or appropriate references to deaf or hearing impaired individuals. The center also publishes brief bibliographies and narrative fact sheets on requested topics free of charge.*

### Newsletters and Other Periodicals

#### The Voice

2939 Hollandale

Dallas, TX 75234

214/349-3271 (voice or TDD)

*Bimonthly publication. Information for hearing impaired people on adaptive devices and computer access equipment selection.*

#### Shhh (Self-Help for Hard of Hearing People)

7800 Wisconsin Avenue

Bethesda, MD 20814

301/657-2248 (voice)

301/657-2249 (TTY)

*Bimonthly. A journal about hearing loss.*

#### American Annals of the Deaf

P.O. Box 2605

Columbia, MD 21045

301/461-7400

*Journal for professionals working with deaf and hearing impaired individuals.*

#### Hearing Instruments

P.O. Box 6079

Duluth, MN 55806

#### Newsounds

Alexander Graham Bell Association for the Deaf

3417 Volta Place NW

Washington, DC 20007

202/337-5220

*Newsounds is a newsletter for deaf and hearing impaired individuals that is published alternately with the Volta Review (see below). It contains information on conferences concerning microcomputers.*

#### Volta Review

Alexander Graham Bell Association for the Deaf

3417 Volta Place NW

Washington, DC 20007

202/337-5220

*This journal for hearing impaired people reports on a variety of technology-related topics and issues.*

### Companies

#### American Communications Corporation

180 Roberts Street

East Hartford, CT 06108

203/289-3491

Am-Com I; LUV 1.

#### Garid

9817 Valley View Road

Eden Prairie, MN 55344

612/941-5464

800/328-4827, ext. 1400

#### Breakthrough Trust Communication Centre

5 Moreland Court

Moreland Street

Nottingham, ENGLAND NG2 3GS

#### The Deaf Factory Store

5010 Branchville Road

College Park, MD 20740

301/772-1565

301/722-2493 TDD

*Products include computer and TDD software.*

#### Krown Research, Inc.

6300 Arizona Circle

Los Angeles, CA 90045

213/641-4306 (Voice/TDD)

#### Palmetto Technologies

P.O. Box 498

Duncan, SC 29334

803/439-4309 (Voice or TDD)

#### Specialized Systems, Inc.

11339 Sorrento Valley Road

San Diego, CA 92121

714/455-9000

714/481-6060

#### 3M Company

Business Communication Products Division

220-9W 3M Center

St. Paul, MN 55144

612/733-1852

#### Ultratec, Inc.

6442 Normandy Lane

Madison, WI 53719

608/273-0707

*Products include computer interface.*

## Selected Information Resources for Blind and Visually Impaired Individuals

This list contains useful sources of information (books and publications, newsletters/periodicals, organizations and companies) for blind and visually impaired computer users. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Books and Publications

**Touch Toys and How to Make Them**  
1984

\$3.00 + .60 for postage

Touch Toys

P.O. Box 2224

Rockville, MD 20852

*This is an instruction book on how to make over 100 toys for the blind. Checks payable to: Touch Toy.*

**Computer Equipment and Aids for the Blind and Visually Impaired**

Computer Center for the Visually Impaired

Baruch College

17 Lexington Avenue

Box 515

New York, NY 10010

*The result of eight years' experience educating blind and visually impaired students in computer technology, the book lists hardware, software, peripherals, researchers, training, and demonstration centers, products in development and a checklist of technical considerations and advice on how to select equipment appropriate to specific needs.*

**The Future of Work for Disabled People: Employment and the New Technology**

\$10.00 print or cassette

Publications and Information Services

American Foundation for the Blind

15 West 16th Street

New York, NY 10011

*A compilation of papers presented at the May, 1985 symposium of the same name, cosponsored by AFB and the President's Committee on Employment of the Handicapped.*

**The Ultimate Guide**

\$16.95 braille and cassette, \$19.95 print

National Braille Press

88 S. Stephen Street

Boston, MA 02115

*Assists in selecting peripherals for blind computer users: modems, braille printers, inkprint printers, speech synthesizers, paperless braille devices, odds and ends.*

**The Resource Manual, 2nd Edition**

Project CABLE

(Computer Access for the Blind in Education and Employment)

\$25.00

The Carroll Center for the Blind

Project CABLE

770 Centre Street

Newton, MA 02159

*This manual includes curriculum, evaluation forms, lesson plans and resources to assist in setting up or running a program. Other topics covered include funding and staffing.*

**An Evaluation of IBM PC Access Systems for the Blind and Visually Impaired**

C-TEC

IBM PC Access Evaluation

Sensory Aids Foundation

399 Sherman Avenue, Suite 12

Palo Alto, CA 94306

415/493-5000

415-229-0430

**How Can We Compute?**

Kathe Nolan

\$14.95

VTEK

1625 Olympic Blvd.

Santa Monica, CA 90404

800/345-2256

(CA)800/521-5605

Canada, Alaska 213/452-5966

*Cassette recordings of eight half-hour radio segments on the subject of computer access & adaptive devices for blind & visually impaired people. The series is directed toward the beginning, elementary-level computer user & will cover basic principles of computer use. Moderated by Jerry Kuns, program director of C-T C (Computer Training and Evaluation Center).*



The First and Second Beginner's Guides to Personal Computers for the Blind and Visually Impaired  
The National Braille Press  
88 South Stephen Street  
Boston, MA 02115  
617/266-6160

*The basic concepts, and reviews of popular systems by blind users. The second Guide is a continuation, not a replacement of the first.*

### Newsletters and Other Periodicals

Dialogue  
Dialogue Publications  
3100 Oak Park Avenue  
Berwyn, IL 60402  
312/749-1908

*This publication, available in Braille, large print, cassette, or recorded disk carries columns that highlight computer and access technology for blind and visually impaired persons.*

BAUD  
Audio-Tech Laboratories  
1158 Stewart Avenue  
Bethpage, NY 11714  
516/433-0171

*Bimonthly; This cassette newsletter contains information on associated access devices for microcomputers for blind users. A free classified section allows contributors to list their services and products for sale.*

Visualtek Newsletter  
Visualtek, Inc.  
1610 26th Street  
Santa Monica, CA 90404  
213/829-6841

Journal of Visual Impairment and Blindness  
Circulation Manager  
JVIB

15 West 16th Street  
New York, NY 10011

*Monthly, Sept-June; Research reviews, applications, and articles on special topics.*

The Communicator  
Route 4, Box 26  
Hicksville, VA 24343  
703/766-3869

*A bimonthly newsletter designed to provide information to teachers of the visually handicapped. Emphasis is on advances in technology and how they are being used. Includes teaching hints, software reviews, user comments, and suggestions. Available in large or regular print or on tape*

Computer Assisted Learning for the Visually Handicapped  
Research Center for the Education of the Visually Handicapped  
Selly Wick House  
59 Selly Wick Road  
Birmingham ENGLAND B29 7JE  
021-471-1303

Raised Dot Computing Newsletter  
David Holladay/Caryn Navy  
408 South Baldwin Street  
Madison, WI 53703  
608/257-9595 general  
608/257-8833 technical  
*Monthly; explores microcomputer applications for the visually impaired.*

Microcomputer News for Teachers of Blind Students  
Catherine Mack  
Florida School for the Blind  
207 St. Augustine  
St. Augustine, FL 32084  
904/824-1654

Talking Book and Braille Book Review  
Library of Congress  
Washington, DC 20542  
*Contains descriptions of books newly printed in Braille and a list of Braille magazines. Talking Book Topics is published bimonthly and distributed free to blind and physically impaired individuals.*

Library of Congress  
National Library Service for the Blind and Physically Handicapped  
1291 Taylor Street  
Washington, DC 20542  
202/287-9281  
*Bimonthly. Free to the blind.*

Aids and Appliances Review  
Carroll Centre for the Blind  
770 Centre Street  
Newton, MA 02158  
617/979-6200  
*Quarterly; a comprehensive review of aids for the blind. Issues 9 and 10 covered voice output computer aids; Issue 11 covered braille oriented computer aids.*

Softyme  
P.O. Box 299  
Newport, RI 02840  
*A bimonthly magazine on Apple disks. Most of its programs are usable with the Echo II speech synthesizer.*



**Softdisk Magazette**

P.O. Box 30008

Shreveport, LA 71130

318/868-7247

*A magazine on Apple disks; features articles and programs, most usable with the Echo II speech synthesizer.*

**Apple Talk**

Jeff Weiss

\$10.00/year

3015 South Tyler Street

Little Rock, AR 72204

*A quarterly magazine, available on disk, for computer users with speech synthesizers.*

**SENSUS**

Sensory Aids Foundation

399 Sherman Avenue, Suite 12

Palo Alto, CA 94306

415/329-0430

*Quarterly newsletter with information regarding technology and vision impairment. Spring, 1986 issue of SENSUS dealt with accessible educational software blind and partially sighted people.*

**Technology Update**

Sensory Aids Foundation

399 Sherman Avenue, Suite 12

Palo Alto, CA 94306

415/329-0430

*Newsletter with information regarding technology and vision impairment.*

**The Visual Field**

Florida Instructional Materials Center

5002 North Lois Avenue

Tampa, FL 33614

*Quarterly newsletter on products, projects, conferences, etc.*

**AFB News**

American Foundation for the Blind

15 West 16th Street

New York, NY 10011

212/620-2020

*Monthly publication. Information on the field of blindness and low vision.*

**Journal of Visual Impairment and Blindness**

American Federation for the Blind

15 West 16th Street

New York, NY 10011

212/620-2020

*Monthly September-June*

**Organizations**

**Sherry Lowry**

Speech Enterprises

P.O. Box 7986

Houston, TX 77270

713/461-1666

*Distributes and develops large print and voice output software for other products. Special Apple Speech - Large Print Resource List is available for \$10.00. Catalog of products available for \$3.00 print, \$5.00 disk, and \$7.50 Braille.*

**American Printing House for the Blind**

P.O. Box 6085

Louisville, KY 40206

502/895-2405

*Producers of software for visually handicapped children below college level. APH also published User Manuals in Braille for Apple computers.*

**Braille Institute**

741 No. Vermont Avenue

Los Angeles, CA 90029

213/663-1111

*This organization acts as a technological resource center for both visually and physically handicapped individuals.*

**Braille Board**

Nick Dotson

904/433-5325

*A computer bulletin board oriented toward blind computer users.*

**Home Study Computer Literacy Course**

Hadley School for the Blind

700 Elm Street

Winnetka, IL 60093

800/323-4238

(In Illinois, 312/446-8111)

**C-TEC (Computer Training and Evaluation Center)**

Sensory Aids Foundation

399 Sherman Avenue, Suite 12

Palo Alto, CA 94306

415/329-0430

*Teaches blind and visually impaired persons to use computer access devices. Provides a center for equipment, resource lists, purchasing guidelines and evaluations of specialized hardware and software.*

Sensory Assistance Center  
Department of Justice  
10th and Constitution, NW  
Washington, DC 20530  
202/633-5104

*This organization is a service and training center for blind and vision-impaired federal employees. Services include training in the use of computers and demonstrations of new and existing devices.*

National Association of Blind and Visually Impaired  
Computer Users  
P.O. Box 1352  
Roseville, CA 95661-1352  
916/786-3923 (modem)  
916/783-0364 (voice)

*A nonprofit, charitable corporation with the purpose of gathering and sharing useful information for blind and visually impaired computer users, and providing a mechanism for ongoing exchange of data between manufacturers, self-help groups, interested parties, and the blind community. Runs Compufelp database and bulletin board. (See Networks, Bulletin Boards and Databases.)*

National Technology Center  
John DeWitt, Evaluation Coordinator  
American Foundation for the Blind  
15 West 16th Street  
New York, NY 10011  
212/620-2051

*Evaluates products; user network; database information. A resource for blind and visually impaired persons and involved professionals.*

The Carroll Center for the Blind  
770 Center Street  
Newton, MA 02158  
617/969-6200  
*Various publications; computer training (Project Cable) and other educational programs.*

Computer Users of America  
Duane Fischer  
5028 Merit Drive  
Flint, MI 48506  
313/736-3774

4 Sights Network  
National Information System for the Visually Impaired  
16625 Grand River  
Detroit, MI 48227  
313/272-3900

Joe Giovanelli  
Audio-Tech Laboratories  
1158 Stewart Avenue  
Bethpage, NY 11714  
516/433-0171

Blind Apple Users Group  
Helen Keller National Center  
111 Middleneck Road  
Sands Point, NY 11050  
516/944-8900

Harvey Lauer  
Blind Rehabilitation Technology Specialist  
Blind Center  
124 Veterans Hospital  
Hines, IL 60141  
312/343-7959  
*Information on various types of computer aids and their application.*

Low Vision Services & Aids for the 80's  
American Foundation for the Blind  
15 West 16th Street  
New York, NY 10011  
*Pamphlets, literature, services for blind.*

Information on Blind Access  
National Association for the Visually Handicapped  
22 West 21st Street  
New York, NY 10010  
212/889-3141  
*Also a San Francisco office.*

National Braille Press, Inc.  
88 S. Stephen Street  
Boston, MA 02115  
617/266-6160  
*Beginner's guide to personal computers, many printer and modem manuals transcribed in Braille.*

National Federation for the Blind  
Committee on Evaluation of Technology  
1800 Johnston Street  
Baltimore, MD 21230  
301/659-9314

Sensory Aids Foundation  
399 Sherman Avenue Suite 12  
Palo Alto, CA 94302  
415/329-3430

Smith-Kettlewell Institute of Visual Science  
Rehabilitation Engineering Center  
2200 Webster Street  
San Francisco, CA 94115  
415/563-2323

Volunteer Braillists, Inc.  
5930 Old Sauk Road  
Madison, WI 53705  
*Will transcribe papers, books, etc. into Braille.*

## Additional Information Resources

This resource list provides information on additional books, pamphlets and organizations of general interest to disabled persons and those working with them. No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Selected Books and Pamphlets

**HEATH Resource Center**  
(Health Education and the Handicapped Center)  
National Clearinghouse on Post-Secondary Education for  
Handicapped Individuals  
1 Dupont Circle NW  
Washington, DC 20036  
202/939-9320

**800/54-HEATH**  
*Disseminates information about educational support  
services, policies, procedures, adaptations, and  
opportunities for disabled students. Prepares and  
disseminates the HEATH Resource Directory and a  
newsletter three times a year.*

Computer Technology for the Handicapped: Applications '85  
Selected Proceedings of the 1985 Closing the Gap Conference  
Grogan, Michael  
1986

\$19.95

Computer Technology for the Handicapped. The Proceedings  
of the 1984 Closing the Gap Conference  
Grogan, M. and Hagen, D.

1985

\$17.95

*These proceedings of the CTG Conference presentations  
provide information on application of computers for  
disabled persons.*

Compilation of Clinical Software for Aphasic Rehabilitation  
and Cognitive Retraining.

Brubaker, Susan Howell, and Rolnick, Michael I.

1984

\$69.95

*This compilation provides descriptions of software  
programs and their characteristics for use in  
microcomputer-assisted aphasia rehabilitation and  
cognitive retraining.*

### Ten Keys

\$198.00 (starter issue); \$125.00 (renewal, supplements)

Aids Unlimited, Inc.

1101 North Calvert Street

Suite 405

Baltimore MD 21202

301/659-0232

*Set of notebooks with tabs, separated into five sections  
including information on assistive devices, information on  
implementation of 504, court decisions, books,  
publications, services and funding. Starter issue  
(containing all previous supplements) and 11 monthly  
supplements, \$198.00. Renewal, 12 supplements, \$125.00  
year.*

### Publications from NARIC

NARIC

4407 Eighth Street NE

The Catholic University of America

Washington, DC 20017

202/635-5826 (voice/TDD)

800/34-NARIC (voice/TDD) (information line)

*Periodical List: A Guide to Disability-Related Journals*

*and Newsletters; The Author's Handbook: A Guide to*

*Professional Journals in Rehabilitation: Resource*

*Directory: A State Guide to Disability-Related*

*Information; Computer Access and Applications for*

*Career Counseling with Vocational Rehabilitation Clients;*

*Computers in Vocational Rehabilitation: Current Trends*

*and Future Applications; Low Cost Approaches to*

*Technology and Disability; Use of Computers in*

*Expanding the Employment Opportunities for Persons  
with Disabilities*

### Quick Guide to Resources in Special Education Technology

Bob Reid and Liane Herera Shepard

Sector Project

Utah State Office of Education

Special Education Section

Developmental Center for Handicapped Persons

Utah State University

Logan, UT

Special Education Applications for PowerPad  
Dunamis, Inc.  
2856 Buford Highway  
Duluth, GA 30136  
404/476-4934

A Study of Communication Aid Research, Prescription, and Commercialization in the United Kingdom and the Netherlands.

Richard A. Foulds  
\$1.50

World Rehabilitation Fund, Inc.  
400 East 34th Street  
New York, NY 10016  
Attn: Diane Wood, Project Director  
*Includes service delivery models, aid demonstration centers, available communication aids, and microcomputer-based communication.*

Communication Interaction Between Aided and Natural Speakers: A State-of-the-Art Report

Arlene W. Kraat  
\$10.95

Trace Research and Development Center  
S-151 Waisman Center  
1500 Highland Avenue  
Madison, WI 53705  
608/262-6966

*A compilation of published and unpublished research, clinical observations and perspectives of aid users. Sponsored by IPCAS: The International Project on Communication Aids for the Speech Impaired*

Used Equipment Mark . . . . . A Strategy for Cutting Equipment Costs  
\$9.00

Metropolitan Center for Independent Living  
1821 University  
Suite N350  
St. Paul, MN 55104  
612/646-8342 (voice)  
612/646-6048 (TDD)

Recognizing and Enhancing the Communication Skills of Your Group Home Clients

Beverly Vicker  
1985  
Development Training Center  
Attn: DTC Library  
2853 East Tenth Street  
Bloomington, IN 47465  
812/335-6508

Computer Technology and Persons with Disabilities Proceedings

1985  
\$12.95

Office of Disabled Student Services  
California State University, Northridge  
18111 Nordhoff Street  
Northridge, CA 91330

*Focuses on 27 of the presentations at the conference of the same name, held in October 1985.*

Speech Systems for Your Microcomputer  
Gary Shade

Wayne Green Publications Group  
Route 101  
Peterborough, NY 03458

*Voice input and output systems for the handicapped; low cost to complex; evaluation criteria.*

Computers, Education, and Special Needs  
E. Paul Goldenberg et al.

1984  
\$14.95

*This book provides a practical introduction to the use of the computer as a tool for special needs education as it relates to communication, access and motivation. Case studies and a guide for implementation are included.*

Technology for Independent Living Sourcebook  
Alexandra Enders, OTR (Editor)

1984  
\$25.00

RESNA  
1101 Connecticut Avenue NW  
Suite 700  
Washington DC 20036  
202/857-1199

*This Sourcebook provides an exhaustive listing of resources for individuals with disabilities and the professionals working with them. It also contains helpful brief articles explaining major concepts, philosophies, and technical information of relevance to the areas covered.*

Features of Commercially Available Communication Aids

A. Kraat and M. Silver  
Prentke Romich Company  
1022 Heyl Road  
Wooster OH 44691  
216/262-1984

*This chart visually displays functions of most of the major commercially available aids; many are useful for computer access. Non-PRC aids are included.*

**Access to Computers for the Physically Handicapped**

Publication ACPH-4 2/84

1984

No charge for single copy

Prentke Romich

1022 Heyl Road

Wooster OH 44691

216/262-1984

*This product brochure attempts to promote a greater awareness of computer-related PRC products, which provide access to computers for disabled people.*

**Guidelines for the Design of Computers and Information Processing Systems to Increase Their Access by Persons With Disabilities**

Gregg C. Vanderheiden and Charles C. Lee (Coordinators)

1986

Trace R&D Center

\$7.40

*These Guidelines are a result of industry/government/researcher/consumer cooperative effort to study the design of computers and develop recommendations for modifications to make them more accessible. The particular focus of these Guidelines is the ability for disabled persons to use standard computers and software. The Guidelines are continually revised based upon the work of the committee. Anyone may participate by securing a copy of the Guidelines, reviewing them, and sending in comments.*

**Personal Computers and the Disabled—A Resource Guide**

No charge for a single copy

Apple Computer

20525 Mariani Avenue

Cupertino CA 95014

408/996-1010

Telex 171-576

**I'm Handicapped! How Can I Use Computers?**

The Handicapped's Source

J.A. Preston Corporation

60 Page Road

Clifton NJ 07012

201/777-2700

*This pamphlet gives an introduction to the basic parts of a computer and how it can be used by disabled individuals.*

**Guide to Learning Resources for Users of IBM Personal Computers**

Available from IBM, 1984.

**Personal Computers and Special Needs**

Frank G. Bowe

1984

Sybez, Inc.

2344 6th Street

Berkeley CA 94710

800/227-2346

*This book shows how computers can be used by individuals with different disabilities, in part by sharing the stories of people who are using computers now.*

**Personal Computers and the Disabled**

Peter A. McWilliams

1984

Quantum Press

Doubleday and Company, Inc.

Garden City NY

*This book gives an introduction and overview of the computer and its potential applications for disabled individuals. Includes comprehensive resource listings of associations, federal government agencies, state agencies, etc.*

**Handbook of Microcomputers in Special Education**

Michael M. Berhmann

1984

College Hill Press

4284 41st Street

San Diego CA 92105

*This book provides an overview of computer applications in special education in a way that generates enthusiasm and decreases the fear of using computers.*

**Handbook of Microcomputer Applications in Communication Disorders**

Arthur H. Schwartz

College-Hill Press

4284 41st Street

San Diego CA 92105

*This book focuses on the understanding and application of the computer by agencies, clinics, and clinicians. Included are evaluation measures for hardware and software, steps in implementation, and possible funding strategies.*

**Learning Disabled Students and Computers: A Teacher's Guidebook**

ICCE (International Council for Computers in Education)

University of Oregon

1787 Agate Street

Eugene, OR 97403

## Appendix A: Additional Sources of Information

Microcomputer Resource Book for Special Education  
Dolores Hagen  
1984

Prentice-Hall, Inc.  
200 Old Tappan Road  
Old Tappan, NJ 07675  
800/336-0338

*This book gives an overview of current applications for individuals with disabilities.*

IBM Special Education Resources Guide to Adaptive Devices, Software, and Services for Special Education, Vocational Rehabilitation and Employers

National Support Center for Persons with Disabilities  
P.O. Box 2150

Atlanta, GA 30055  
404/238-3206

*A listing of resources related to microcomputer use by persons with disabilities.*

Computer Technology for the Handicapped in Special Education and Rehabilitation: Resource Guide I and II  
ICCE (International Council for Computers in Education)

University of Oregon  
1787 Agate Street  
Eugene, OR 97403

Software Selection, Evaluation and Organization  
ICCE (International Council for Computers in Education)  
University of Oregon

1787 Agate Street  
Eugene, OR 97403

Interactive Video in Special and General Ed: A Development Manual

ICCE (International Council for Computers in Education)  
University of Oregon

1787 Agate Street  
Eugene, OR 97403

Indiana Assistive Device Resource Directory  
Instructional Materials Center

Indiana Department of Education  
Box 100, Butler University

Indianapolis, IN 46208  
317/927-0219

*Directory to help Indiana service providers match those needing assistance to people and product sources. Resource/contact persons for non-vocal communication in Indiana and a listing of the equipment they have are included.*

Tell 'em Ware

\$10.00 (ASCII text files on Apple DOS 3.3 disk)

1714 Olson Way

Marshalltown, IA 50158

*Over 200 addresses of sources useful in application of Apple computers with special education students; e.g., suppliers of Apple compatible parts and accessories, suppliers of software for the handicapped, organizations and individuals with further information, collections of public domain educational software.*

Computer Use in Cognitive Retraining  
1984

\$1.25

National Head Injury Foundation

P.O. Box 567

Framington, MA 01701

617/879-7473

*Overview and considerations for determining use of computer technology in cognitive bibliography with information on software, publications, articles, resources.*

Computer Applications for Speech-Language Services in

Jana Sanders, M.A.

Everybody's Technology: A Sharing of Ideas in Augmentative Communication

Charles Goris-Monis

Charlescoms Env.

P.O. Box 419

Jean Talan Station

Montreal, Quebec H1S 2Z3

Programming Equity into Computer Education  
\$9.95

Project on Equal Education Rights

1413 K Street

Washington, DC 20005

*A kit to evaluate the accessibility of computer resources to disabled students, girls, minorities and low-income students.*

Proceedings of the National Conference on Microcomputers in Special Education

Hartford, Connecticut March 1983

CEC 5512

1920 Association Drive

Reston, VA 22901

Microcomputers in Special Education: An Introduction to Instructional Applications

Budoff, Milton Thormann

1985

\$19.95

*This book introduces special education teachers and administrators to microcomputers and how they can be used in special education settings.*



Computer Technology for the Handicapped in Special Education and Rehabilitation  
ICCE - International Council for Computers in Education  
University of Oregon  
1787 Agate Street  
Eugene, OR 97403

Careers, Computers, and the Handicapped  
Michael Bender, Nancy Pin-Milburn, Lee Richmond  
Pro-Ed

#### Organizations

Education Turnkey Institute  
256 N. Washington Street  
Falls Church, VA 22046  
703/536-2310

*Provides information services and training on technology use in special education. Also conducts surveys of state and local education associations for publishers and developers.*

Computer Users in Speech and Hearing (CUSH)  
School of Speech and Hearing Sciences  
Ohio University  
Athens, OH 45701  
614/594-6168

*CUSH is an organization of speech pathologists and audiologists involved in the application of computer technology in the communication sciences. Information is exchanged through journals and a software lending library.*

SEDL/Regional Rehabilitation Exchange  
211 E. 7th Street  
Austin, TX 78701  
512/476-6861

*This project identifies exemplary practices and programs. The core area is "High Technology Applications in the Vocational Rehabilitation Process." Technical assistance in this area is provided.*

Fairfax County Public Schools  
10310 Layton Hall Drive  
Fairfax, VA 22030  
703/691-2186

*Resource center for technology for handicapped students in public schools. Have explored computer applications in the following areas: computer literacy, CAI, communication assistance and vocational training.*

East Range Developmental Achievement  
800 A Avenue  
Eveleth, MN 55734  
218/744-5130

*An exchange network for information on the use of microcomputers by persons with developmental disabilities.*

Data Referral Network  
Mobility Special Services, Inc.  
190 Sumner Street  
Boston, MA 02062  
617/891-8858

*Data Referral Network provides "one-stop shopping" for disabled individuals. (New York residents must call: 800/962-1480, ext. 333)*

Governor's Advocacy Council for Persons with Disabilities  
1318 Dale Street  
Suite 100  
Raleigh, NC 27605  
919/733-9250

*This organization is a resource center for disabled persons in North Carolina.*

Massachusetts Rehabilitation Commission Library  
Room 331  
20 Park Plaza  
Boston, MA 02116  
617/727-1140 (voice and TDD)

*This library is dedicated exclusively to literature about disabled people. Information about computers and adaptive devices is available free of charge to handicapped people.*

First Dibs  
Disability Information Brokerage System  
P.O. Box 1285  
Tucson, AZ 85702-12  
602/791-4393

*A resource sharing network that provides a wide range of resources including information on new technological developments regarding computers as well as augmentative communication and rehabilitation devices.*

National Center for Health Statistics  
3700 East-West Highway  
Hyattsville, MD 20782  
301/436-8500

Easter Seal Children's Center  
3161 Maple Drive, NE  
Atlanta, GA 30305  
404/261-6262

*Offers advice and training for computer use with pre-school handicapped children. Includes diagnostic services for students regarding computers, peripherals and appropriate software.*

Blissymbolics Communication Institute  
350 Rumsey Road  
Toronto, Ontario, Canada M4G 1R8  
416/424-3805

*Support and educational group involved in the design of computer programs using Blissymbols. Resource center for the use of Blissymbols. Distribute programs using Blissymbols for augmentative communication.*

## Appendix A: Additional Sources of Information

Bureau of Education for Exceptional Students  
Florida Bureau of Education for Exceptional Students  
Knott Building  
Tallahassee, FL 32301  
904/488-4245

*State Education: Agency providing hands-on training for microcomputer use to teachers and students. Acts as a resource center for anyone wanting information regarding technology and students with disabilities.*

Access/Abilities  
P.O. Box 458  
Mill Valley, CA 94942  
415/388-3250

*Access/Abilities maintains a data base of resources for physically impaired individuals. The data base contains information on services, aids, and adaptive devices. The data is not yet electronically accessible.*

Connecticut Special Education Resource Center  
Hartford Graduate Center  
275 Windsor Street  
Hartford, CA 06120  
203/246-8514

*Offers inservice training on microcomputer use in special education. Acts as a resource center for computer software, professional books, tests, and instructional materials. Runs an annual summer conference.*

ABLENET  
Cerebral Palsy Center  
Griggs-Midway Building  
1821 University Avenue  
St. Paul, MN 55104  
612/331-5958

*ABLENET provides information on technological devices and support services for children and adults with severe or profound disabilities.*

National Organization on Disability (NOD)  
2100 Pennsylvania Avenue NW  
Suite 234  
Washington, DC 20037  
202/293-5968  
202/293-5968 (TDD)

*NOD offers information and referral services to all handicapped individuals. The organization is community-based and supports a national network of disabled people working together for change.*

NIRE (National Institute for Rehabilitation Engineering)  
97 Decker Road  
Butler, NJ 07405  
201/838-2500

*This organization is an information and referral center for disabled persons seeking rehabilitation with the help of technology.*

Job Accommodation Network (JAN)  
Box 468  
Morgantown, WV 26505  
800/526-7234

*A service of the President's Committee on Employment of the Handicapped, operated by NIHR (National Institute of Handicapped Research) and RSA (Rehabilitation Services Administration). Provides a free information system for employers regarding job modifications and accommodations. Includes equipment modifications, site modifications, and redesign of job functions to suit functional limitations.*

ERIC Clearinghouse on Handicapped and Gifted Children  
The Council for Exceptional Children (CEC)  
1920 Association Drive  
Reston, VA 22091  
703/620-3660

*Disabled or gifted children; produces one database, ECER (research and related literature), and offers searches of the ERIC database; publishes fact sheets and brief bibliographies on topics of current interest; responds to information requests.*

SECTOR Project  
Kim Allard, Director  
UMC 68  
Utah State University  
Logan, UT 84322  
801/753-7973

Center for Multisensory Learning  
Linda De Lucchi  
Lawrence Hall of Science  
University of California  
Berkeley, CA 94720  
415/642-8941

FDLRS/EAST  
Eileen Pracek, Director  
1450 Martin Blvd.  
Merritt Island, FL 32952  
305/631-1921

Association for Retarded Citizens (ARC) of the US  
Bioengineering Program  
P.O. Box 6109  
2501 Avenue J  
Arlington, TX 76006  
817/640-0204

*Technology for mentally retarded persons. Adapts currently available assistive devices for use by retarded persons; develops new assistive devices when needed; consolidates information on the use of technical aids into technology resource library.*



### Computer Options

85 Market Street  
Poughkeepsie, NY 12601  
914/471-2765

*Workshops, service and consultation to schools, facilities and individuals interested in using computers with handicapped children. Quarterly newsletter (free) with new products, unique applications, and more. Also has Educational Software Catalog (free) - 500 titles by subject area.*

### National Clearinghouse of Rehabilitation Training Materials (NCRTM)

Oklahoma State University  
115 Old USDA Building  
Stillwater, OK 74078

*Provides information on rehabilitation with primary emphasis on training materials for use by educators or disabled persons or counselors. Publishes the NCHRTM Memo (quarterly) to help disseminate information.*

### Stout Vocational Rehabilitation Institute Materials Development Center (MDC)

University of Wisconsin-Stout  
Menomonie, WI 54751  
715/232-1342

*Vocational evaluation and work adjustment; collects, develops, and disseminates information and materials on vocational evaluation and work adjustment, including the use of technology.*

### National Information Center on Deafness

Gallaudet College  
800 Florida Avenue NE  
Washington, DC 20002  
202/651-5109 (voice/TDD)

*Deafness and hearing loss: centralized source of information on deafness; responds to inquiries from parents, professionals, and deaf individuals; disseminates fact sheets, resource listings, and other materials.*

### Tech-Tapes

Susan Elting  
Council for Exceptional Children  
1929 Assocation Drive  
Reston, VA 22091  
800/345-TECH

*Series of taped messages on special education technology. Tapes are available 6 PM to 1 PM Monday-Friday. Staff will answer and handle requests from 1 PM to 6 PM.*

### NEISS

New England Institute of Sensory Science  
71 Pleasant Street  
Worcester, MA 01609  
617/791-4303

*Information center on technology for people with hearing, visual, balance and touch disabilities. Also provides information on organizations and special services for people with sensory disabilities.*

### HELPLINE

Pracon, Inc.  
10390 Democracy Lane  
Fairfax, VA 22030

*Prepares lists of assistive devices. Checklists distributed primarily to physicians' offices to be given to patients as needed. Lists are sent in response to the checklists received, with occasional further searches for special products. Free of charge, funded by Merck, Sharp, & Dohme.*

### Mill Neck Foundation, Inc.

P.O. Box 100  
Mill Neck, NY 11765

*Telecommunication van designed as a mobile learning lab and demonstration unit for TDDs. Travels in an interstate area in the northeastern region.*

### Kinsmen Rehabilitation Foundation of British Columbia

2256 West 12th Avenue  
Vancouver, British Columbia V6K 2N5

*Information center on resources for persons with disabilities. KRIS database, soon to be available, will include information on technology, organizations and other resources.*

### C-CAD (Center for Computer Assistance to the Disabled)

2501 Avenue J  
Suite 100  
Arlington, TX 76011  
817/640-6613

*Generates the donation of computers, peripherals, and software from commercial organizations for placement (donation or on loan) to disabled clients. Maintains computer database of resources of information. Consults and responds to requests for information about special adaptations or modifications to computers for use by the disabled.*

### AIDLINE

Associated Enterprise Development, Inc.  
120 Admiral Cochrane Drive  
Annapolis, MD 21401  
301/841-6920

*Taped messages about technology for people with disability. Suspended, but group is looking for funding to continue project.*

## Appendix A: Additional Sources of Information

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The Technical Resource Center  
1820 Richmond Road SW  
Calgary, Alberta, Canada T2T 5C7  
403/229-7875

*Does assessments and provides technical aids to help disabled persons better realize educational, vocational, social and independent living potentials. Consults on the selection, operation, and application of aids. Equipment is loaned for trial use and assessment. Educates professionals. Maintains computerized library of information.*

TASH (The Association for the Severely Handicapped)  
1600 West Armory Way  
Seattle, WA 98119  
206/283-5055

Personal Computer Opportunities for the Handicapped  
P.O. Box 374  
Spicer, MN 56288  
612/796-5765

*This organization is dedicated to helping disabled individuals acquire job skills and jobs with personal computers.*

National Technology Center  
American Foundation for the Blind, Inc.  
15 West 16th Street  
New York, NY 10011  
212/620-2000

*The Center has three components: National Technology Data Base; Evaluations; Research and Development. Provides a resource for blind and visually impaired persons and professionals who work with them.*

NTID (National Technical Institute for the Deaf)  
1 Lomb Memorial Drive  
Rochester, NY 14623  
716/475-6400

*This organization of the U.S. Department of Education is a resource center for technical education for deaf and hearing impaired people.*

Western Center for Microcomputers in Special Education  
1259 El Camino Real  
Suite 275  
Menlo Park, CA 94025  
415/326-6997

*Publishes The Catalyst (quarterly). Provides information on computer peripherals for use by handicapped individuals.*

Office of Special Education  
Apple Computer, Inc.  
20525 Mariani Avenue  
Cupertino, CA 95014  
408/996-1010

*Through this office, Apple works with key education, rehabilitation and advocacy organizations nationwide to identify the computer-related needs of disabled individuals and to assist in the development of responsive programs.*

Arkansas Rehabilitation Research and Training Center in  
Vocal Rehabilitation  
Publications Department  
P.O. Box 1358  
Hot Springs, AR 71902  
*Free description of research reports, reference materials, and training programs published by the Center.*

LINK Resources, Inc.  
3857 N. High Street  
Columbus, OH 43214  
614/263-5462  
*A market linkage special education project, LINK receives Office of Special Education Program products, evaluates them for commercial and not-for-profit distribution potential, and assists developers in marketing. Examples: "We Are One," a video to increase sensitivity between physically handicapped and nonhandicapped persons; "Education, Career Development and the Physically Disabled;" "It Takes All Parts," a manual of activities for severely disabled and sensory impaired preschoolers; "Optacon Instruction Manual For Children;" "Yes, You Can! The Severely Communicatively Impaired Child in the Classroom," including 14 videotapes and manual.*

Closing The Gap, Inc.  
P.O. Box 68  
Anderson, MN 56044  
612/248-3294

*National and regional conferences, workshops and training. Also operates a bookstore and publishes a newspaper dedicated to the latest in technology for disabled people.*

DADA (Designing Aids for Disabled Adults)  
1024 Dupont Street  
Unit 5  
Toronto, Ontario, Canada M6H 2A2  
416/633-4494

*Helps to train disabled adults and health care professionals in the use of new and existing technology, researches and develops low-cost technical aids, runs workshops.*

**PHLRST. LINK**

(Physically Handicapped Information Resource Service on Technology)

Kitchener-Waterloo Services for the Physically Disabled  
75 King Street South  
Suite 606

Waterloo, Ontario, Canada N2J 1P2

519/885-3540

*Provides physically disabled individuals with opportunities for hands-on computer experience and up-to-date information on computers and technical aids or devices.*

**NASDSE** (National Association of State Directors of Special Education)

2021 K Street NW

Suite 315

Washington, DC 20006

202/296-1850

Free Research and Development Center on Communication, Control, and Computer Access

Reprint Department

S-15; Waizman Center

1500 Highland Avenue

Madison, WI 53705

608/262-6966

*Free listing of research reports and reference materials published by the center.*

**Special Education Software Center**

Building B, Room S312

333 Ravenswood Avenue

Menlo Park CA 94025

800/327-5892 (software information)

800/223-2711 (technical assistance)

800/435-7639 (TTY)

*Sponsored by the U.S. Department of Education, Special Education Programs, Division of Educational Services*

**D:ATA Institute**

4407 Eighth Street NE

The Catholic University of America

Washington, DC 20017

202/635-5826

*D:ATA has an organizational relationship with NARIC.*

*It was formed to foster broad-based research, educational programs, and other services related to the application of technology in rehabilitation and special education. D:ATA publishes documents and produces a quarterly newsletter, "Current D:ATA." Rehabilitation Research Reviews (\$9.00 each) are a cooperative effort of NARIC and NCRE (National Council on Rehabilitation Education) and summarize research literature on key topics in rehabilitation (e.g., Computers and Vocational Education: Current Trends and Future Applications; Computer Access and Applications for Career Counseling; etc.*

**Assistive Device Information Network**

Division of Developmental Disabilities

University Hospital School

Iowa City IA 52242

319-5564

**Educational Resources Information Center (ERIC)**

National Institute of Education

5500 New Jersey Avenue, NW

Washington, DC 20001

202/254-5500 (management)

*Education; collects and disseminates educational documents to teachers, administrators, researchers, students and other interested persons. Consists of 16 clearinghouses located across the country, each specializing in a particular subject area related to education.*

**NARIC** - National Rehabilitation Information Center

4407 Eighth Street, NE

The Catholic University of America

Washington DC 20017

202/635-5826

202/635-5884 (TDD)

800/34-NARIC

*NARIC is a rehabilitation information service research library funded by the National Institute of Handicapped Research, U.S. Department of Education, to provide access to NIHR and RSA (Rehabilitation Services Administration) funded reports and information on assistive devices, and to disseminate other rehabilitation related information resources. NARIC has these resources: REHAB DATA is a computerized listing of over 10,000 NIHR and RSA materials, selected reports of journal articles, audiovisual materials, and commercial publications. REHAB DATA's phone is 202/635-5822. ABLEDATA is a computerized listing of over 10,000 commercially available aids for rehabilitation and independent living, from simple to sophisticated (e.g., personal care, seating, transportation, home management, etc.). To retrieve information, contact an information broker, or ABLEDATA at 202/635-6090. Custom database searches are a minimum of \$10.00 for the first set of up to 100 citations, then \$5.00 for each additional set of 100. Both are also available for direct public access through BRS (Bibliographic Retrieval Services). For more information, contact BRS, Route 1, Latham, NY 12110, phone 800/833-4707 (in New York, 518/783-1161).*

**Project Learning Programs, Inc.**

P.O. Box 2002

Chico CA 95927

916/893-4223

## Appendix A: Additional Sources of Information

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**PSI-TECH Program**  
Concepts for Independent Living  
Operations Center  
2203 Airport Way South  
Suite 310  
Seattle WA 98134  
206/343-0670

*A part of the National Initiative on Technology and the Disabled, a program in which the Reagan administration invited aerospace companies to apply the space program technological know-how to the needs of the disabled. Operates Tech-Net (see Networks.)*

**Indiana Department of Education**  
Instructional Materials Center/Handicapped  
Box 100  
Butler University  
Indianapolis IN 46208  
317/927-0392  
317/927-0219

**Missouri LINC**  
Assistive Devices Service  
609 Maryland  
Columbia MO 65211  
800/392-0533  
314/882-2733 (in Missouri)  
*Provides information, technical assistance, inservice, and materials pertaining to vocational education for individuals experiencing handicaps. The Assistive Device Service provides information on adaptive equipment (computer access, switching devices, communication aids, low-cost adaptations) for persons with handicaps in Missouri.*

**PAM - Physically Impaired Association**  
Assistance Center  
601 W. Maple  
Lansing MI 48906  
800/426-7426

517/371-5897 (in Michigan)  
*Provides information and technical assistance to disabled individuals and service providers in the selection, development or adaptation of devices.*

**Project Threshold**  
Rancho Los Amigos Hospital  
7601 East Imperial Highway  
500 HUT  
Downey CA 90242  
213/922-8116

**JWK International Corporation**  
Project EDUTECH, Log P  
7616 Little River Turnpike  
Annandale, VA 22003  
804/750-0500

**Center for Special Education Technology**  
Council for Exceptional Children (CEC)  
1920 Association Drive  
Reston VA 22091  
703/620-3660  
800/345-TECH

**Division for Disorders of Development and Learning**  
University of North Carolina at Chapel Hill  
Biological Sciences Research Center 220 H  
Chapel Hill NC 27514  
919/966-5171 (office)

**Exceptional Technology**  
9220 SW 52 Terrace  
Miami FL 33165  
305/274-3501

**MECC**  
(Minnesota Educational Computing Consortium)  
3490 Lexington Avenue North  
St. Paul, MN 55112  
612/638-0627

**TAM**  
(Technology and Media for Exceptional Individuals)  
Institute for the Study of Exceptional Children  
Department of Special Education  
University of Maryland  
College Park MD 20742

**DCCG Resource Center**  
(Disabled Children Computer Group)  
Fairmont School  
724 Kearney Street  
El Cerrito CA 94530  
415/528-DCCG

**Project M.U.S.E.**  
(Microcomputer Use in Special Education)  
27 Horrabin Hall  
Western Illinois University  
Macomb IL 61455

**National Information Center for Handicapped Children and Youth**  
P.O. Box 1492  
Washington DC 20013  
703/522-3332

*Prepares News Digest, Transition Summary, and fact sheets. Responds to information requests and provides names of local resources.*

Trace Research and Development Center on Communication,  
Control, and Computer Access for Handicapped Individuals  
1500 Highland Avenue  
S-151 Waisman Center  
Madison WI 53705  
608/262-6966  
608/263-5408 (Information Resources)

CITH  
(Center for Innovation in Teaching the Handicapped)  
Indiana University  
2805 East 10th Street  
Room 150  
Bloomington IL 47405  
812/335-5847  
*A research and information center for new teaching  
materials in special education.*

Sector Project  
Special Education Communication Technology On-Line  
Resource  
J.M.C. 68  
Utah State University  
Logan, UT 84322  
801/753-7973  
801/750-2087  
*A computerized listing of special education resources  
and reviews of Computer Assisted Instruction materials.*

Compute Able Network  
Kevin Mills, Dennis Kviz  
P.O. Box 1706  
Portland OR 97207  
503/644-2940  
*Non-profit organization; provides information, training,  
problem-solving sessions, individual consultations, field  
testing, market research, conferences, vendor training.*

## Selected Bibliography of Videotapes on Augmentative Communication and Computer Access for Handicapped Individuals

Prepared for the Trace Resource Book Series by  
Beverly Vicker  
Indiana University  
Developmental Training Center  
2853 E. 10th Street  
Bloomington, IN 47405

*A special thanks must be extended to the people who provided information to help expedite this project. In particular, the contributions of Gregg Vanderheiden and Sara Brandenburg from the Trace Center, Judy Montgomery from Fountain Valley School District, and Sally Blackstone from ASHA must be acknowledged. Thanks must also be given to Henry Schroeder, the director of the Developmental Training Center, for his support for this project.*

*All of the tapes listed in this bibliography have not been personally reviewed, so the information in the abstract reflects, in many cases, a description of content by the producing organization. Much of the information was gathered through telephone contacts.*

*An apology is extended to any individual or organization whose video production(s) were overlooked and subsequently not listed. Please send me the appropriate information, and I'll include it at the time of a subsequent revision.*

### ID #VT-3

Prentke Romich Company  
VHS; 55 minutes  
Prentke Romich Company  
1022 Heyl Road  
Wooster, OH 44691  
216/262-1984

*The tape contains three segments with Barry Romich: 1) Considerations for selecting the most appropriate communication aid (discusses the multiple considerations influencing the final selection of the most appropriate communication aid for specific user(s)), 2) Light Talker and Touch Talker Communication Systems (provides an overview of these two systems and compares and contrast access means, software, and mod. lar capabilities), and 3) Light Talker: Selection Techniques (discusses standard selection techniques available in the Light Talker Communication Aid).*

Lee Kweller's Bar Mitzvah  
CNN/TV and NBC  
1985

VHS, 3/4"; 10 minutes  
Artificial Language Laboratory  
405 Computer Center  
East Lansing, MI 48824-1042

*This tape consists of several short clips of tapes that appeared on the above listed TV networks. The tapes include an interview with Lee and his mother, and shows him using his voice output communication device at his Bar Mitzvah.*

PM Magazine's "Jim Brooks"  
PM Magazine  
1981

VHS, 3/4"; 5 minutes  
Artificial Language Laboratory  
405 Computer Center  
East Lansing, MI 48824-1042

*This tape segment shows an interview with Jim Brooks, who was a client at the Artificial Language Laboratory. The tape is available as a separate tape or on combination tape with "Finding a Voice" and "A Gift for Serena."*

Minspeak  
Council for Exceptional Children  
1984

VHS; 17 minutes  
Prentke Romich Company  
1022 Heyl Road  
Wooster, OH 44691  
216/262-1984

*Bruce Baker, the linguist who developed Minspeak, is interviewed about the conceptual development of it. (On tape with VT-1 with the Lainey System and "A Special Magic."*



**Symbol Eyes**

Blissymbols Communication Institute

VHS; 5 minutes

Lauren Productions

56 Shaftsbury Avenue

Toronto, Ontario, Canada M4T 1A3

*This animated video demonstrates the usage of Blissymbols for preschoolers.*

**Lainey**

University of Tennessee

1985

VHS; 13 1/2 minutes

Prentke Romich Company

1022 Heyl Road

Wooster, OH 44691

216/262-1984

*The tape shows an integrated system of technical aids in the areas of communication, computer access and mobility. The system is in use by Lainey Marty, a sixteen-year-old public school student. On tape VT-1 with "A Special Magic" and Bruce Baker on Minspeak. Tape also available in 3/4" or 1/2" tape from University of Tennessee Rehabilitation Department, 682 Court Avenue, Memphis TN 38163.*

**Disabled Access to Technological Advances**

Access to Independence, Inc.

1986

VHS, Beta; 23 minutes

Access to Independence, Inc.

1954 East Washington Avenue

Madison, WI 53704

608/251-7575

*This videotape shows how computer technology can be used to enhance employment options in a variety of fields for persons with severe physical disabilities. Featured are three people using computer technology to help achieve their employment goals; a counselor using computer retraining drills and training in word processing; a planner using a lap computer with a speech synthesizer for communication and as a keyboard emulator to access the office computer; a law student describing how word processing and access to legal databases will make him more productive.*

**Eye Scan**

Artificial Language Laboratory

1984

VHS, 3/4"; 30 minutes

Artificial Language Laboratory

405 Computer Center

East Lansing, MI 48824-1042

*This video documents the evaluation of a 6-year-old using an eye scanning device.*

**Bilingual Augmentative Communication by a Cerebral Palsied Adolescent**

Brown Center for Alternative Communication and Environmental Control

1984

3/4"; 12 minutes

Research Dissemination, Education and Training

Rehabilitation Institute of Chicago

345 E. Superior Street

Chicago, IL 60611

312/908/6184

*Can also be available in 1/2" format with sufficient advance notice. This videotape focuses on a unique solution to a cerebral palsied adolescent's need and desire to communicate to his friends in Spanish as well as in English via his newly acquired electronic communication device with synthesized speech. It encompasses not only the evaluation and selection procedure for use and prescription of the communication system, but also the hierarchy involved in the training stages.*

**Alternatives for the Speechless: Communication in a Multi-Handicapped Setting.**

Mary Blake Huer and Janice Williams

3/4" or VHS 1/2"; 20 minutes. Send blank VHS and \$10.00

Mary Blake Huer

University of Wisconsin-Whitewater

Department of Communication Disorders, Roseman 1020

Whitewater, WI 53190

414/472-1485

*A videotape presented at the 1980 ASHA convention.*

*Black-and-white taped segments of 6 individuals using Bliss symbols, signs, hand pointing, eyegaze, typing, and light beam pointer for communication.*

**A Special Magic**

University of Tennessee Rehabilitation Engineering Center

1979

VHS; 20 minutes.

Prentke Romich Company

1022 Heyl Road

Wooster, OH 44691

216/262-1984

or from the REC at Memphis, 682 Court, Memphis TN 38163, 901/528-6445.

*This tape shows Lainey Martz from the videotape "Lainey" as a nine-year-old. The central theme of the tape involves an introduction to the field of rehabilitation engineering.*

### A Gift for Serena

WDIV TV, Detroit  
1982

VHS, 3/4"; 20 minute  
Artificial Language Laboratory  
405 Computer Center  
East Lansing, MI 48824-1042

*This tape documents the search of a family for a communication enhancement system for 9-year-old Serena. John Eulenberg describes the various approaches taken at the Artificial Language Laboratory to help provide Serena with an augmentative means for communication. The tape is available separately or on a combination tape with "Finding a Voice," and PM Magazine's segment on Jim Brooks.*

### Access

Apple Computer, Inc.  
10 minutes 45 seconds; free loan  
Apple Computer, Inc.  
Office of Special Education  
20525 Mariani Avenue  
Cupertino, CA 95014  
408/996-1010

*A demonstration of how computers are affecting the lives of disabled children and adults.*

### To Say I Am

KOCE TV; Judy Montgomery, Consultant  
1980

VHS, Betamax, 3/4"; 30 minutes  
Lawren Productions, Inc.  
P.O. Box 666  
Mendocino, CA 95460

*This tape originally aired on PBS stations as a general public awareness tape. It includes a 20-page viewers guide. It presents introductory information about assessment and programming, and depicts some augmentative communication devices such as the ZYGO 100. The tape was made at Plavan School, Anaheim, California.*

### To Be Like Anyone Else

Crippled Children's Hospital and South Dakota Dept. of Education  
1984

VHS, 3/4"; 29 minutes  
Speech Department  
Crippled Children's Hospital and School  
2501 West 26th Street  
Sioux Falls, SD 57105

*This video demonstrates the usage of augmentative communication devices by multiply handicapped children in a variety of real-life situations.*

### Talk Is Not a Four-Letter Word

Sally Bl. -kstone and Lucinda Cassatt-Jones  
1986

VHS, 3/4"; 16 minute  
Publications Department  
American Speech-Language Hearing Association (ASHA)  
10801 Rockville Pike  
Rockville, MD 20852  
301/897-5700

*This video presents an overview of the area of augmentative communication and illustrates the diversity of individuals with severe expressive communication disorders, and the variety of techniques, strategies and aids used to circumvent the communication problem. An instructional guide is also included.*

### System for Augmentative Communication

Elaine Heaton and Barbara Strohback  
VHS, Beta, 3/4"; 57 minutes  
Purchase only:

VTI (Voice Tapes, Inc.)

*The target audience for this tape, which includes a packet of discussion materials, includes pre-service students and professionals with minimal exposure to this area. The content includes a discussion of systems for augmentative written and spoken communication as well as a discussion of low technology systems and a philosophical overview of concepts involved in augmentative programming.*

### Personal Computing: Help for the Handicapped--The National Fair

Paul Hazan  
1981

Betamax; 9:41 minutes  
Paul Hazan  
Johns Hopkins University  
Applied Physics Laboratory  
Johns Hopkins Road  
Laurel, MD 20810  
301/953-7100

*This is a videotape of the 1981 Johns Hopkins University National Fair. The tape includes demonstration of an eyetracker communication system, a pocket telecommunicator for the deaf, LipReader/Trainer program package, a reading machine for the blind and dyslexic, a motor handicapped support system, programs for the learning disabled, Microbraille system (a software program).*



**Personal Computing: Help for the Handicapped**

Paul Hazan

1981

3/4", VHS, Betamax

Paul Hazan

Johns Hopkins University

Applied Physics Laboratory

Johns Hopkins Road

Laurel, MD 20810

301/953-7100

*This captioned tape outlines the potentials of the microcomputer to aid blind, deaf, and physically disabled individuals in everyday situations. A brief review of microcomputer uses is presented.*

**Now I Can Speak**

Blissymbolics Communication Institute

1981

VHS, Beta; 20 minutes

Lauren Productions

56 Shaftsbury Avenue

Toronto, Ontario, Canada M4T 1A3

*The videotape shows the versatility of communication and interaction styles of adults and children who use Bliss symbols. Fourteen different variations of use are shown, i.e., use of eye gaze, use with signing, etc.*

**Mr. Symbol Man**

Canadian Broadcasting System (Consultant, Shirley

McNaughton)

1975

VHS, Beta; 60 minutes

National Film Board

1257 Avenue of the Americas

New York, NY 10020

Also from: Benchmark Films, Inc.

P.O. Box 315

Franklin Lakes, NJ 07417

*The video describes the life and work of Charles K. Bliss. It also shows segments demonstrating Bliss symbol users during the early stages of the Ontario Crippled Children's Centre Project.*

**Hullabaloo at High Rock**

Crippled Children's School and Hospital

1986

VHS, 3/4"; 12 minutes

Speech Department

Crippled Children's Hospital and School

2501 West 26th Street

Sioux Falls, SD 57105

*This videotape demonstrates the creative process of producing a play by communication handicapped children using augmentative devices. The tape shows the students and interviews with the various service staff who were involved in the process.*

**Gerald Goldberg - Optical Headpointer**

3/4", VHS, Betamax; 22 minutes

General Accounting Office

441 G Street NW

Room 5741

Washington, DC 20548

202/275-3597

*This videotape illustrates the long range optical pointer developed at the Trace R&D Center in use by Gerry Goldberg, who has muscular dystrophy.*

**Dependence to Independence**

Elaine Trefler, University of Tennessee Rehabilitation

Engineering

1986

VHS, Beta, 3/4"; 15 minutes

Association for Advancement of Rehabilitation Technology (RESNA)

Suite 700

1101 Connecticut Avenue NW

Washington, DC 20036

202/857-1199

*This videotape presents a broader view of rehabilitation technology as it applies to communication, etc. An overview of nation-wide research projects and service related issues are presented.*

**From Silence to Solist**

1982

VHS, 3/4"; 27 minutes

Media Resource Center

Meyers Children's Rehabilitation Institute

444 S. 44th Street

Omaha, NE 68131

402/559-7467

*This videotape follows the development of communication skills, both oral speech and augmentative skills, of a boy from age 4 to age 11. The tape demonstrates for parents, etc., that the use of augmentative devices, neither manual communication boards nor electronic devices, prevent the child from developing oral speech skills that are possible within the parameters of his neurological abilities.*

**Finding a Voice**

Nova Series

1982

3/4", VHS, Betamax; 60 minutes

Time-Life Videos

WGBH Educational Foundation

100 Eisenhower Drive

Paramis, NJ 07652

*This tape shows several augmentative system users. The focus of this tape is on the development of one system for an individual, and a demonstration of it. A description of other systems is presented, as well as an interview with John Eulenberg.*

## Appendix A: Additional Sources of Information

### BreakThru

Blissymbolics Communication Institute

1981

VHS; 50 minute

Lauren Productions

56 Shaftsbury Avenue

Toronto, Ontario, Canada M4T 1A3

*This video documents the lives of three nonspeaking persons within the context of their families and/or residential/educational facility. Although all three people (a 9-year-old, an 18-year-old, and a 30-year-old) use Blissymbols this is incidental to the thrust of the videotape.*

### Augmentative Communication Training: Action Modules

VHS, Beta, 3/4"; 20-30 minutes

1987

Dr. Albert Cook

California State University

Assistive Device Center, 6000 J Street

Sacramento, CA 95819

916/278-6422

*This will be commercially available by the fall of 1987; the distributor has not yet been identified. A companion syllabus will accompany each of the six tapes in this series. The tapes will cover the topic of an overview of the field of augmentative and alternative communication, evaluation of physical, cognitive, and language abilities, decision-making, i.e., achieving an interface between needs and abilities, different types of options, and training clients to use a system.*

### Aaron

Trace Center

1984

AESIR Software Engineering

P.O. Box 5383

Riverdale, CA 93650

*Jacqueline Able, director of Speech Pathology at St. Agnes Hospital, Fresno, California, discusses different needs for augmentative communication systems within the hospital for both short-term and long-term patients.*

*Steve Able, a software engineer for Aesir software engineering, demonstrates the Aaron software system, which runs on an IBM/PC and presents a scanning keyboard screen. The user must be able to control a switch; the program "learns" from past experience (i.e., user's language style). The software package is \$350.00*

### A Voice Within

Judy Montgomery and Sallie Dashiell

1987

VHS; 8 minutes

Lawren Productions

P.O. Box 666

Mendocino, CA 95460

*This videotape shows a representative sample of the wide range of augmentative systems that can be used in public school programs to facilitate academic and interaction tasks for nonspeaking children age three to 22 years. The videotape will be available in February of 1987.*

### Computer Access for Disabled Individuals

Trace R&D Center

1986

VHS; 16 minutes; \$15.00

Trace R&D Center

S-151 Waisman Center

1500 Highland Avenue

Madison, WI 5 705

608/262-6966

*This open captioned videotape demonstrates current computer access techniques for physically disabled, blind, and visually impaired individuals. The impact of the ability to use computers and the importance of ensuring easy access to future computer systems is discussed. Prepared for the NIIIR-OSERS Initiative on Computer Access.*

### Computer Programmer Training for the Handicapped

TODDCOMP

1979, 1983

VHS, Betamax, 3/4"; 24 minutes

Dr. Wilson

TODDCOMP

University of Missouri Extension

*Attitudinal barriers, however, need to be changed, according to the text, so that the disabled can have appropriate opportunities for education and employment.\* \* \**

*314/449-3481*  
*This tape is directed at business and industry employers, demonstrating the qualifications of the disabled in the area of computer programming. It analyzes several training programs from candidate selection to job placement, emphasizing the goal of independence for the disabled.*

### Feeling Free

\$75.00/tape to purchase, \$25.00 to rent

NCHRTM

Oklahoma State University

115 Old USDA Building

Stillwater, OK 74078

405/624-7650

*6 1/2-videotapes to help others share the lives and feelings of handicapped children. Originally shown on public television.*

Videotapes Available from IBM

IBM Special Education Programs

1300 Rockville Pike

Rockville Pike, MD 20852

301/897-3855

*At My Fingertips (Telesensory Systems, Inc.); Equal to the Task (Telesensory Systems, Inc.); Here I Am: The International Games for the Disabled; IBM: Writing to Read; 1984 Easter Seal Computer Camp; Visualtek Product Demonstration Video*

Autistic Education Program Videotape

1/2" VHS, \$49.95

ASIEP Education Company

P.O. Box 12147

Portland, OR 97212

503/236-1317

*A 25-minute color videotape showing how to teach nonverbal students using a communication focused language curriculum. Includes how to teach sign use, sign-speech procedures, how to teach sign and sound pairing, how to teach speech initiation, and how to use peer tutors.*

Oh Say What They See: An Introduction to Indirect Language Stimulation Techniques

1/2" VHS, 1/2" Beta, 3/4"; \$295.00

ASIEP Education Company

P.O. Box 12147

Portland, OR 97212

503/236-1317

*Animation and adult/child interactions are used to explain and demonstrate indirect language stimulation techniques. Model training sessions show staff, parents, and adult caregivers how to incorporate techniques with daily routines. A viewer's guide reviews each language development technique demonstrated in the videotape.*

### Service Centers

No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

#### Alabama

Communication Habilitation Service  
Pam Elder, MA CCC  
201 Sleepy Hollow Circle  
Birmingham AL 35216  
205/871-2766

#### Arizona

Cerebral Palsy Foundation of South Arizona  
4710 E. 29th DAC W.  
Tucson, Arizona 85711  
602/747-6809

*Involves basic remediation and rehabilitation, vocational counselling and research on the use of technology with individuals with severe and profound handicaps.*

The SPEAC Center  
Mary Christen, MA  
6306 North Seventh Street  
Phoenix AZ 85014  
602/263-0770

Arizona Training Program  
Susan Neidlinger  
Auxiliary Communication Assessment  
3727 East McDowell Road  
Phoenix AZ 85028  
602/275-7821, ext. 348

Children's Achievement Center for Developmental Delays  
3825 East Second Street  
Tucson AZ 85716  
602/325-1517

#### California

Assistive Device Center, California State University-  
Sacramento  
Colette Coleman, Ph.D., Co-Director  
Albert M. Cook, Ph.D., Co-Director  
6000 "J" Street  
Sacramento CA 95819  
916/454-6422

Blissymbolics Resource Center  
Melvin S. Cohen, Ph.D., Director  
Department of Speech & Language Development  
Loma Linda University Medical Center  
Loma Linda CA 92354  
714/824-4401

Casa Colina Hospital Non-Oral Communication Program  
Charles Johnson, MA, CCC  
255 East Bonita Avenue  
Pomona CA 91767  
717/593-7521

Children's Hospital & Health Center  
Speech, Hearing, & Neurosensory Center  
Chris Hagen, Ph.D., Director  
Speech-Language Pathology Department  
8001 Frost Street  
San Diego CA 92123  
619/576-5837

Children's Hospital at Stanford  
Rehabilitation Engineering Center  
Margaret R. Barker, MS  
520 Willow Road  
Palo Alto CA 94304  
415/327-4800 ext. 345

UCLA Intervention Program  
Dr. Judy Howard, Medical Director  
23-10 Rehabilitation Center  
1000 Veteran Avenue  
Los Angeles CA 90024  
213/825-4821

Glendale Adventist Hospital  
Beth Pioli, Director  
Non-Speech Communication Program  
1509 Wilson Terrace  
Glendale CA 91026  
818/240-8000, ext. 416

Non-Oral Communication Center  
Judy Montgomery, MA, CCC  
9675 Warner Avenue  
Fountain Valley CA 92708  
714/964-2014

Non-Verbal Assessment Program  
Sally Cook, MA, CCC, Teacher Coordinator  
Los Angeles Unified School District  
c/o Widney High School  
2302 South Gramercy Place  
Los Angeles CA 90018  
213/732-1976

Northridge Hospital Medical Center  
Gail L. Pickering, Program Coordinator  
Innovative Communications Aids for the Non Verbal (ICAN)  
183200 Rosco Boulevard  
Northridge, CA 91328  
818/885-8500

Rancho Los Amigos Hospital  
Frank DeRuyder, Ph.D., Director  
Communication Disorders Department  
7601 East Imperial Highway  
Downey, CA 90242  
213/922-7682

White Memorial Medical Center  
1720 Brooklyn Avenue  
Los Angeles, CA 90033-2481  
213/922-7682

SDSU Assistive Device Assessment Program  
Clinical Training Center  
College of Human Services  
San Diego State University  
San Diego, CA 92182-0446  
619/265-6121

Non-Oral Communication Services: Community Based Service  
294 Carl, #16  
San Francisco, CA 94117  
415/664-2274

#### Colorado

Rocky Mountain Regional Center  
Boulder Memorial Hospital  
311 Mapleton  
Boulder, CO 80302  
303/441-0461

Fitzsimmons Army Hospital  
East Colfax Avenue  
Aurora, CO 80045-5001  
203/361-8241  
Poudre Valley Hospital  
1024 Lemay Avenue  
Fort Collins, CO 80024  
303/482-4111

#### Connecticut

Newington Children's Hospital  
Lynn Graff, Speech and Hearing  
181 East Cedar Street  
Newington, CT 06111  
203/667-5200

Connecticut Center for the Non-Vocal  
Iris Fishman  
130 Hunting Street  
Bridgeport, CT 06606  
203/334-2118

#### District of Columbia

Communication Aids Education Software  
Susan A. Brummell, M.S.  
Speech & Language Pathologist  
3177 18th Street, N.W.  
Washington, DC 20010  
202/462-1187  
202/899-5891 (Messages)

#### Florida

Florida Diagnostic Learning Resources Services (FDLRS)  
9220 SW 52 Terrace  
Miami, FL 33165  
305/274-3501  
*Offers diagnostics for computer compatibility for disabled people, inservice training, computer information resources, as well as software and hardware evaluation.*

The Communication System Evaluation Center  
Edythe F. Finkley, Evaluation Team Leader  
Sandra Osborn, Senior Presenter  
P.O. Box 271  
Orlando, FL 32802  
305/423-9212  
305/422-3200, ext. 692

#### Illinois

Du Page Easter Seal Treatment Center, Inc.  
830 S. Addison  
Villa Park, IL 60181  
312/620-4433  
*The center specializes in the use of personal computers in therapy.*

## Appendix A: Additional Sources of Information

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Alan J. Brown Center for Alternative Communication &  
Environmental Control

Jerri Voda, MS, CCC-SP

Rehabilitation Institute of Chicago  
345 East Superior Street  
Chicago, IL 60611  
312/908-2556

Gottfreid Speech Association  
Ann B. Kanter, MA, CCC-Sp  
Center for Non-speech Communication  
1535 Lake Look Road  
Northbrook, IL 60062  
312/564-9230

State of Illinois  
Lee Ann Vicars  
Anna Mental Health and Development Center Rehabilitation  
Services  
1000 North Main Street  
Anna, IL 63906  
618/833-5161

Center for Communication Disorders Ltd.  
18019 Dixie Highway  
Homewood, IL 60430  
312/799-7520

### Indiana

Rehabilitation Technology Center  
Larry Whitehead  
615 North Michigan Street  
South Bend, IN 46601  
219/284-7134

Fort Wayne State Hospital & Training Center  
Pat Jonaitis  
Speech and Hearing Department  
4900 St. Joe Road  
Ft. Wayne, IN 46815  
219/485-7554, ext. 647

Porter County Special Education Coop  
Neil Carpenter  
750 Ransom Road  
Valparaiso, IN 46383  
219/464-9607

Memorial Hospital  
Mark Russel  
Assistive Device Resource Center  
315 North Michigan  
South Bend, IN 46601  
219/284-7134

### Kansas

Institute of Logopedics  
Augmentative Communication Program  
2400 Jardine Drive  
Wichita, KS 67219  
316/262-8271  
800/835-1043

### Kentucky

Redwood School and Rehabilitation Center  
Debra Maly, M.A., CCC, Speech Dept. Head  
71 Orphanage Road  
Fort Mitchell, KY 41017  
606/331-0880

### Maryland

United Cerebral Palsy of Central Maryland  
Noreen Rysticken  
Non-Vocal Communication  
Derry Preschool  
18 Delrey Avenue  
Catonsville, MD 21228  
301/744-3151

Maryland Rehabilitation Center  
2301 Argonne Drive  
Baltimore, MD 21218  
301/366-8800  
301/366-6608 (TTY)

Kennedy Institute  
Sally Blackstone, Ph.D.  
707 North Broadway  
Baltimore, MD 21205  
301/522-5450

### Massachusetts

Adaptive Computer Technology Center  
Kennedy Memorial Hospital  
30 Warren Street  
Brighton, MA 02135  
617/254-3800  
*Utilizes and provides instruction in the use of computer-based technology to enhance learning, leisure, communication, prevocational skill development, independent living, and environmental control.*

Children's Hospital Medical Center  
Howard Shane, Ph.D.  
Communication Enhancement Clinic  
300 Longwood Avenue  
Boston, MA 02115  
617/735-6466

Massachusetts Hospital School  
Carol Sargent, OTR/L  
Adaptive Equipment  
Canton, MA 02021  
617/828-2440

Non-Vocal Communication Resource Center (NVCRC)  
Ellen Kravitz  
Speech and Hearing Department  
Fernald State School  
Box 158  
Belmont, MA 02178  
617/894-3600, ext 2352 or 2285

Speech, Hearing, Language  
New England Medical Center  
181 Harrison Avenue  
Boston, MA 02110  
617/956-5300

New England Medical Center, Inc.  
Dr. Bruce Gans  
Special Equipment Clinic  
171 Harrison Avenue  
Boston, MA 02111  
617/956-5625

#### Michigan

Oakland Schools Learning Assessment Clinic  
Ina Kirsten, Communication Consultant/Clinician  
Communication Enhancement Center  
2100 Pontiac Lake Road  
Pontiac, MI 48054  
313/858-1901

Jackson County Intermediate School District  
Dianne Taulbee, Supervisor  
6700 Browns Lake Road  
P.O. Box 1160  
Jackson, MI 49201  
517/787-2800

Communication Enrichment Resource Center (CERC)  
Leonard Reznierski, Ph.D.  
Northville Public Schools  
501 West Main Street  
Northville, MI 48167  
313/349-3400, ext. 277

Mott Children's Health Center  
Joan Todoroff  
806 West 6th Avenue  
Flint, MI 48501  
313/767-5750

#### Minnesota

Sister Kenny Institute  
800 E. 28th Street at Chicago Avenue  
Minneapolis, MN 55407  
612/874-4175

*This organization uses computer programs to provide language and cognitive therapy to adults with neurologic injuries.*

United Cerebral Palsy of Minnesota, Inc.  
223 So. Griggs-Midway Building  
1821 University Avenue  
St. Paul, MN 55104  
612/646-7588

*No evaluations, but operates a loan bank of communication equipment for professionals in the area to allow assessment of the appropriateness of a device for a client.*

Cambridge Area Developmental Rehabilitation and Education (CADRE)  
430 N.W. Eighth Street  
Cambridge, MN 55008  
612/689-4466 (afternoons)

Courage Center  
Bill Margolis  
3915 Golden Valley Road  
Golden Valley, MN 55422  
612/588-0811

#### Mississippi

Living Systems/ITD  
2160 S. Lamar  
Oxford, Mississippi 38655  
601/234-0158

*Has a microcomputer laboratory equipped to evaluate and to develop hardware and software which will provide capability to disabled individuals.*

#### Missouri

Jewish Hospital  
Occupational Therapy Department  
216 S. Kings Highway  
St. Louis, MO 63110  
314/454-7752

*Using microcomputer technology, the Jewish Hospital offers complete assessment and treatment for disabled people. Teaches microcomputer use as a tool for rehabilitation as well as for vocational training.*

## Appendix A: Additional Sources of Information

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### Nebraska

Barkley Memorial Center  
University of Nebraska-Lincoln  
42nd and Holdrege  
Lincoln, NE 68583-0731  
402/472-5459

### New Jersey

Cerebral Palsy Association of Middlesex County  
Travis M. Tallman, CCC-Sp  
Director, Speech Pathology  
Roosevelt Park  
Oak Drive  
Edison, NJ 08837

Children's Seashore House  
Joan Brune, MS, CCC  
4100 Atlantic Avenue  
P.O. Box 4111  
Atlantic City, NJ 08404  
609/345-5191

Children's Specialized Hospital  
Kim Jolie, MA, CCC-SP  
Augmentative Communication Services  
50 New Providence Road  
Westfield-Mountainside, NJ 07091  
201/233-3720

### New Mexico

Clinical Microcomputer Laboratory  
Gary Rushakoff  
Department of Speech  
New Mexico State University  
Las Cruces, NM 88003

### New York

John A. Coleman School  
New York Foundling Hospital  
1175 Third Avenue  
New York, NY 10032  
212/472-3322, ext. 629  
*The School uses computers daily with multiply handicapped children (ages 1-10) to achieve a variety of basic educational goals.*

The Burke Rehabilitation Center  
785 Mamaroneck Avenue  
White Plains, NY 10605  
914/948-0050  
Cerebral Palsy Center

Carol Cohen, Director  
Schneider Communication Unit  
1603 Court Street  
Syracuse, NY 13208  
315/455-5726

Non-Vocal Communication Group of Greater New York  
Arlene Kraat  
Queen's College  
19-10 Parsons Boulevard  
Whitestone, NY 11257  
718/520-7000  
718/670-4222

Rochester Institute of Technology  
The Office of Special Services  
1 Lomb Memorial Drive  
P.O. Box 9887  
Rochester, NY 14623-0887  
716/475-2832

### North Carolina

Division of Disorders of Development and Learning  
Patricia Porter  
University of North Carolina-Chapel Hill  
Biological Science Research #220H  
Chapel Hill, NC 44691  
919/262-1984

### Ohio

Rehabilitation Institute of Ohio  
Miami Valley Hospital  
One Wyoming Street  
Dayton, OH 45409  
513/220-2063  
*The Institute uses computers to help brain injured individuals make maximum use of their abilities. Focus is on cognitive and linguistic retraining using microcomputers as therapeutic tools.*

Prentke Romich Company  
1022 Heyl Road  
Wooster, OH 44691  
216/262-1984

### Oregon

Good Samaritan Hospital  
Margaret Russitano, MA  
1015 N.W. 22nd Avenue  
Portland, OR 97210  
503/229-7711



Pennsylvania

Special Education and Assistive Device Center  
Mary Brady  
Elizabethtown Rehabilitation Hospital  
Elizabethtown, PA 17022  
717/367-1161; ext. 315

South Dakota

Yankton Area Adjustment Training Center  
909 W. 23rd Street  
Yankton, SD 57078  
605/665-2518  
*Provides computer-assisted learning on the Apple IIe for area special education students. Focus includes job skills, job readiness skills, math skills, time and money skills, pedestrian safety, and activities.*

Crippled Children's Hospital and School  
2501 West 26th Street  
Sioux Falls, SD 57105  
605/336-1840

Tennessee

University of Tennessee  
Elaine Trefler, OTR  
Rehabilitation Engineering Center  
682 Court Avenue  
Memphis, TN 38163  
901/528-6445

Texas

Callier Center for Communication Disorders  
Delva Culp  
1966 Inwood Road  
Dallas, TX 75235  
214/783-3033

Education Service Center, Region 20  
Dennis Dildy  
Community Based Services  
1314 Hines Avenue  
San Antonio, TX 78208  
512/271-7611

Washington

Gordon R. Hauck School  
Lake Washington School District  
11133 N.W. 65th  
Kirkland, WA 98033  
204/822-9588

Children's Orthopedic Hospital and Medical Center  
Marny Isaman  
Communicative Disorders  
4800 Sand Point Way N.E.  
Seattle, WA 98105  
206/536-2191

University of Washington Hospital  
Communication Augmentation Center  
BB 919 Health Sciences Building RJ-30  
Seattle, WA 98195  
206/543-3674

Wisconsin

Communication Aids and Systems Clinic  
Donna DePape  
S-120 Waisman Center  
1500 Highland Avenue  
Madison, WI 53705  
608/263-2522

Trace Center Communication Development Program  
Sara Brandenburg  
S-157 Waisman Center  
1500 Highland Avenue  
Madison, WI 53705  
608/263-5697

Curative Rehabilitation Center  
1000 North 92nd Street  
Wauwatosa, WI 53226  
414/259-1414

Canada

Technical Resource Center  
1820 Richmond Road S.W.  
Calgary, Alberta, Canada T2T 5C7  
403/229-7875  
*Provides information and one-month loan of devices in the areas of adaptive toys, communication aids, daily living aids, inventory control and microcomputers. It offers assessment and consultation.*

Sunny Hill Hospital for Children  
3644 Slocan Street  
Vancouver, British Columbia V5M 3E8  
604/434-1331  
*Offers assessment and training of physically disabled children for access to microcomputers for education, recreation, and communication.*

Bloorview Children's Hospital  
25 Buchan Court  
Willowdale, Ontario, Canada M2I 4S9  
416/494-2222

## Appendix A: Additional Sources of Information

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The Hugh MacMillan Medical Centre  
Penny Parnes, Director  
350 Rumsey Road  
Toronto, Ontario M4G 1R8  
416/425-6220

The Kinsman Rehabilitation Foundation  
Technical Aids Program  
2256 West 12th Avenue  
Vancouver, British Columbia V6K 2N5  
112-800-663-1555

Gorge Road Hospital  
63 Gorge Road East  
Victoria, British Columbia V9A 1L2  
604/386-2464

## Portable Typewriters

This is a listing of commercially manufactured portable typewriters (weighing less than 10 pounds). No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### Royal Alpha 100

\$199.99

No LCD; 32-character recall; standard typing paper, single sheets only; weight 10 lbs.; 1-year parts warranty only

### Sharp PA 1000

\$350.00

8.7K w/extension (5 1/2 pages); uses thermal or bond paper, single sheets only; weight 8.4 lbs.; 26 abbreviations. 90-day parts and labor warranty, factory

### Silver Reed RX-300

\$795.00

Prints 16 characters/second; types in nica, elite, mini; 8K memory; can plug into any computer and act as a letter quality printer. 6-month warranty.

### Silver Reed EXD-10

\$195.00

15-character line; minimal memory; weight 5 lbs.; uses single sheets of thermal or bond paper; dot matrix print. 6-month warranty

### Scars #5394

\$119.00, \$219.00

Single page memory; weight 4 lbs.; uses single sheets of bond or thermal paper; made by Brother. 1-year parts and labor warranty.

### Brother EP-44

\$200.00

16-character LCD; 3.7K memory (1 1/2 pages); uses single sheets of bond or thermal paper; roll attachment included. 90-day labor warranty, 1-year parts warranty; some parts guaranteed longer.

### Brother EP-22

\$129.00, \$99.00

16-character LCD; 2K memory; uses single sheets of bond or thermal paper; roll attachments are available. 90-day labor warranty, 1-year parts warranty; some parts guaranteed longer.

### Canon Typestar 5, Typestar 6

\$225.00

15 character display; one-line memory, 30-character key buffer; automatic return, underlining; uses standard Xerox or similar paper; no roll attachments; 90-day factory warranty.

## Optical Character Recognition Scanners

OCR scanners allow computer users to enter printed documents into the computer without retyping. The traditional application of scanners has been to prevent rekeying documents such as insurance forms, legal materials, medical charts, or books. They are also of great use to blind computer users as an alternate input device. However, they have been unreliable (even 99% reliability means 15 errors/page), inflexible, bulky, and high priced, costing hundreds of thousands of dollars. More recently, several companies have offered products in the \$10,000-\$50,000 range.

New OCR scanners are now being introduced at lower prices. An overview of developments in OCR scanning technology can be found in the August, 1986 issue of PC World ("Scanners: Gaining Recognition," Bill Crider). No recommendations or endorsements are implied by inclusion on this list. Contact each resource for more specific and up-to-date information.

### E-Scan

List price \$2,495.00

Tecmar, Inc.

6225 Cochran Road

Solon, OH 44139

216/349-0600

Or Electronic Information Technology, Inc., 373 Route  
46 West, Fairfield, NJ 07006, 201/227-1447.

### IX-12

List price under \$2,000 with OCR software and interface  
board

Canon U.S.A., Inc.

1 Canon Plaza

Lake Success, NY 11042

516/488-6700 (systems division)

### IX-8

List price around \$1,000.00 with interface board

Canon U.S.A., Inc.

1 Canon Plaza

Lake Success, NY 11042

516/488-6700 (systems division)

### OCR Software

List price \$595.00

OCR Systems, Inc.

3430 Progress Drive, Suite 1

I-95 Industrial Park

Bensalem, PA 19020

215/638-2174

### Model 730

List price \$4,950.00 (with WIPS)

Datacopy Corporation

1215 Terra Bella Avenue

Mountain View, CA 94043

415/965-7900

### JetReader

List price \$2,950.00 (with WIPS and OCR software)

Datacopy Corporation

1215 Terra Bella Avenue

Mountain View, CA 94043

415/965-7900

### PC-Scan

List price \$1,950.00, TextPac Software \$595.00

Dest Corporation

1201 Callicott Court

Wilpiter, CA 95035

408/946-7100

### MS-200

List price \$1,700.00 (with Eyestar 200)

Microtek Lab, Inc.

16901 S. Western Avenue

Gardena, CA 90247

213/321-2121

Other companies working on low-cost sheet scanners costing  
\$1,500-\$2,000:

Sharp Electronics Corporation

Ricoh Corporation

## Portable Battery-Operated Printers

This list contains information on portable, battery-operable printers that could be used with communication aids with RS232 output. No recommendations or endorsements are implied by inclusion on this list. Contact individual manufacturers for current price and other information.

### Axonix ThinPrint 80

\$279.00

Axonix Corporation

417 Wakara Way

Salt Lake City, UT 84108

800/821-7093

*80 or 136 columns/line; 4 lbs; re-chargeable battery and AC adaptor; serial or parallel interface; thermal printing.*

### Epson HS-80 LetterJet Portable Printer

Epson America, Inc.

23610 Telo Street

Torrance, CA 90505

213/534-4234

*Lightweight; rechargeable battery and 6 volt adaptor to allow printing during recharging; variety of print styles and features; ink jet printing; parallel interface.*

### Laptopp On-the-Go Portable Printer

\$149.95

Laptopp Systems

515 Calle San Pablo

Department 1

Camarillo, CA 93010

800/LAP-TOPP

805/482-9699 (in California)

*Less than 3 lbs. (with batteries); goes 2 hours on battery power; 4 character types; thermal printing; parallel interface.*

### Hush-80 Printer

Ergo Systems, Inc.

303-3 Convention Way

Redwood City, CA 94063

800/222-HUSH

415/363-5966

*25 oz.; 80-column; rechargeable battery option; thermal printing; parallel, RS232 or Commodore interface.*

### NEC PC-8221A

Contact for more information:

ZYGO Industries, Inc.

P.O. Box 1008

Portland, OR

503/297-1724

*Small, 40-column printer (4" x 6")*

# Appendix B

## Glossary

*Appendix includes terminology found in the product descriptions that might be new or unfamiliar to many readers. The glossary does not attempt to be all-inclusive for the field of computer applications in special education and rehabilitation or augmentative communication, rather it serves to clarify possible points of confusion in the books.*

**Abbreviation expansion** An abbreviation expansion program allows a person entering text or data on a computer or communication aid to enter a long string of characters (a "macro") by simply typing in one or a few defined characters (the abbreviation). This system can save the user typing time and effort.

**Applications program** Any program that enables the user to accomplish some task using a computer, but not a task relevant only to the computer's operation. For instance, a word processing program would be an applications program, because it enables the user to create, edit and print text. But a program that strictly performs the function of speaking the contents of the computer screen via a speech synthesizer (a "talking screen" program) is a program that pertains mainly to the way in which the computer functions, and therefore would not be considered an applications program.

**Artificial Larynx** An electronic device which generates a tone to replace or enhance lost vocal tone. The tone is transmitted from the device either directly to the user's throat or (via a tube) into the nose or mouth. The user articulates the tone into speech in the normal manner.

**ASCII** American Standard Code for Information Interchange. A standardized system which assigns letters, numbers, and various other characters each their own code. This allows information to be transferred successfully from one computer or peripheral to another via various interfaces. It is important to note, however, that simply because one device produces ASCII output and another accepts ASCII input does not mean that they will necessarily operate flawlessly in conjunction with one another.

**Authoring Program** A program which is designed to help the user in creating programs suited to different situations. An authoring program for education, for example, might allow several different types of tests to be created, each with its own means of recording and analyzing scores.

**Auto-Repeat** The feature on computer keyboards which causes a particular character to repeat for as long as its key is depressed. This feature is fairly universal; it usually takes effect after a short delay. Hardware and software systems which disable the auto-repeat function are available for some computers.

**Baudot** The information exchange code most commonly used by TDDs (Telecommunication Devices for the Deaf). Most TDDs transmit only Baudot, but some offer the option of transmitting ASCII code as well. ASCII is used by computers when they communicate telephonically. The two codes are not compatible.

**Buffer** A set of memory circuits which are designed to store excess input until it can be accepted, or excess output until it can be sent. A printer, for instance, may have a buffer for storing text which is being sent to it from a computer faster than the printer can physically print it.

**Communication aid** Any device or system which augments a person's ability to communicate. This term can cover non-electronic devices such as communication boards, or electronic devices such as portable communication systems which allow the user to print and speak typed-in text.

**Control, controller** Technically this term may be used for any switch or switch-like device which is used to control some system (computer, wheelchair, etc.) Typically it is applied to devices which incorporate several switches and which control a system in several ways; e.g., a joystick used to control a video game.

**CP/M** Control Program for Microcomputers. An operating system developed by Digital Research, Inc. for a particular family of microprocessors. See operating system.

**Cursor** The graphic character on a computer screen which indicates the point at which text is being added or edited.

**Database** A body of information that is stored and manipulated on a computer. A database management program is typically used to enter, edit, store, and manipulate this information.

**Digitizer** See speech digitizer.

**Direct Selection** Any technique for selecting choices in which a person points directly to the desired choice. This contrasts with scanning, in which choice are offered sequentially and the user signals when the selection is reached. Methods of direct selection include pointing, pressing various keys on a keyboard, or eye gaze selection. Generally speaking, direct selection methods allow selections to be made more rapidly. See also scanning.

**Disk** One type of system for storing data in electronic form. The term "hard disk" refers to a large-capacity disk that must be permanently installed in a computer. "Floppy disk" or "diskette" are terms used to refer to the type of disk that is portable, and which is inserted in the computer (in the disk drive) for use and is removed from the computer when no longer in use. The term "disk" by itself usually refers to a diskette.

**DOS** Disk Operating System. See operating system.

**Emulator** A device which imitates the action of another. A terminal emulator, for instance, is a system which is not a terminal per se, but is designed to operate like one.

**Encoding** A type of technique for increasing the number of selections possible on an electronic communication aid. The user enters an alphanumeric code, and the characters of the code determine which letter, word, phrase, etc. is called up. Thus an electronic communication aid with ten keys might have 1000 possible selections, each formed by pressing some three-key combination. See also levels.

**Firmware** A program or programs stored in circuitry, rather than in a disk or tape storage system. Optional firmware for microcomputers is often sold as a circuit board (or "card") which fits in one of the several option slots in the computer. This is not a strictly observed term; any program may be referred to as "firmware" (see software).



**Hardware** Any component of an electronic system (such as a computer system) which is tangible; e.g., a computer, a monitor, a disk drive, a printer, etc. This category contrasts with software, which describes those components which consist only of electronic signals; e.g., programs, text files, and other quantities of information that can be stored on a disk or in a computer's memory. Although a program on a floppy disk is commonly referred to as software, technically the disk is hardware and the program on it is software.

**Host computer** In a computer system where various terminals (or computers connected in a network) are used to send input to a central computer, the central computer is commonly referred to as the host computer. See also terminal.

**Input** Any information entered into a computer by the user or sent to the computer by another device. See output.

**Interface** The point at which two electronic devices, such as a computer and a printer, communicate with each other. Also, an electrical connector or adaptive device which allows the interface to work properly.

**Jack** In a male-female electrical connection, the jack is the female connector. See plug.

**Keyboard Emulating Interface (KEI)** If some device such as a communication aid is used as an alternate keyboard for a computer, some system is usually required to allow the two to communicate successfully. A KEI takes the keystrokes from the alternate keyboard and makes them appear to the computer as indistinguishable from keystrokes on the normal keyboard. Some communication aid systems contain a KEI. Others are designed to operate with a standard KEI (one which complies with the standard industry protocol). In the latter case, the aid plugs into the KEI, which plugs into the computer like a ordinary keyboard.

**Keyguard** A plate which fits over the top of a keyboard and has holes over some or all of the keys. A keyguard can allow the user a place to rest the hands while typing, but primarily it is designed to prevent inadvertent key presses caused by poor motor control or other factors. Key latches, devices which hold down keys such as SHIFT, are commonly available with keyguards, and can facilitate one-finger typing.

**Keypad** A somewhat loosely used and not strictly defined term, keypad usually refers to any keyboard having significantly fewer keys than a standard typewriter or computer keyboard. Anything called a keypad can also be accurately referred to as a keyboard or part of a keyboard. The term often refers to the special separate set of numeric or cursor keys on some computer keyboards.

**Latching** See toggle.

**LCD, LED** Liquid Crystal Display and Light Emitting Diode. These are types of display systems. LEDs are the type of displays, commonly used on calculators, which glow and come in various colors: red, blue, green, etc. LCD displays are also common on calculators, but are gray and do not glow.

**Levels** A system similar to encoding whereby the number of potential selections on an electronic communication aid can be greater than the number of buttons, keys, or scanning positions it has. "Each key makes one selection to choose a level; each level then has a different programmed value for each key, button, etc. Levels are sometimes known as 'pages'."

**Light Pen** An input device operated by pointing to locations on a computer's video screen. The device resembles a pen, and requires some special program to operate. Commonly used to make selections from menus or to create graphics.

**Load** To transfer a program from storage in memory (for instance on disk) to a computer's RAM. A program must be loaded in order to be run. See also RAM.

**Macro** A string of characters triggered by a defined shorter set of characters. See also abbreviation expansion.

**Mainframe** A term frequently used to distinguish large computer systems from mini- or microcomputers. A mainframe system is often designed to receive input from a number of terminals.

**Membrane keyboard** A keyboard whose individual keys are located under a flexible surface with no openings in it. The user activates the keys by pressing on the membrane.

**Memory** A system for storing data (information or programs) electronically. Data may be stored on tapes, on disks, or in circuitry. The two types of memory in the circuitry of a computer are ROM and RAM (see these definitions).

**Menus** A set of selections presented to the user of a computer or electronic aid, usually on a screen or other electronic display. If a program is "menu-driven," this usually means that the user can execute it largely by selecting from menus which the program offers.

**Microcomputer** An individual and discrete computer system, such as the type most people purchase for home use. This term contrasts with mainframe, a term commonly used to describe larger computer systems which accept input from various terminals, and which generally have larger memory and processing capacities.

**Microprocessor** The heart of a microcomputer system, the microprocessor is the circuitry that actually does the "computing." Any device which contains a microprocessor, even if it is not a computer per se, can be referred to as "microprocessor-based."

**Modem** A device which can transmit computer data over telephone lines.

**Monitor** The TV-like device which displays a video image of the data entered on a computer. Commonly referred to simply as the screen, or sometimes the CRT.

**Operating System** The program that allows the various parts of a computer system (the disk, the monitor, printers, etc.) to "talk" to each other. The operating system is usually the first thing "loaded" after a computer is turned on, as most other programs require it in order to run.

**Optical character reader (OCR)** A device which can optically analyze a printed text, recognize the letters or other characters, and store this information as a computer text file. OCRs are usually limited to recognizing the styles and sizes of type for which they are programmed.

**Output** Anything produced by a computer or any other device, and sent outward from that device. Output may be sent to another computer, to a peripheral, or to some display system such as a monitor.

**Overlay** A group of symbols, pictures, words, characters, etc. which are placed over the keyboard of a computer or communication device, or over the display of a communication device. The overlay usually reflects what output will be generated when a key is pressed or a selection is made, but for devices with no output other than the indication that a selection has been made, the symbol itself may serve as the message communicated.

**Parallel port** One type of interface whereby a computer or communication device is connected to another computer or communication device, or to some peripheral input or output device. The connection is frequently located on the back panel of a microcomputer.

**Peripheral** Any hardware that is separate from the computer itself: printers, speech synthesizers, disk drives, etc.

**Phoneme, phonetic spelling** A phoneme is a single discrete unit of sound used in speech. Phonetic spelling uses a character for each phoneme, rather than representing pronunciation indirectly as standard spelling does.

**Plug** In an electrical connection using a male and a female connector, the plug is the male connector. In this volume, the term plug has been frequently used solely to indicate the size and type of connector, and may refer to a device which is actually outfitted with a jack. See also jack.

**Port** An input/output connection on a computer. Frequently located on the back panel of microcomputers.

**Position** Any potentially selectable area in a scanning array; for instance, a 10 x 10 array may have 100 positions. When a position is selected, it is considered a selection. Positions are also known as locations.

**Program** A series of instructions to a computer. A program is what allows the computer user to execute some task on the computer (see software). Commercially available programs are frequently sold stored on disks, but programs may also be written directly on a computer or purchased in firmware form (see firmware).

**RAM** Random Access Memory. This is the type of memory in a computer where data is placed while it is in use. A program on a disk, for instance, is loaded into the computer's RAM before being run. RAM is cleared when a computer is shut off, however, and so the program must be stored again after being used. Computers are often described in terms of their RAM capacity: a "128K" computer has a RAM capacity of approximately 128,000 bytes (characters) of information. See also disk, memory, ROM.

**Refreshable braille display** Also known as a dynamic braille display, this type of system uses a set of braille cells, each consisting of six or eight retractable electronically operated reeds. An electronic code sent to the system raises and lowers the reeds to form braille characters which the user can sense by placing the fingers on top of the display. When the display is full, the first cell recomposes itself and the display fills up again. Some displays also scroll.

**ROM** Read Only Memory. This is permanent memory built into a computer's circuitry by the manufacturer. See RAM.

**RS-232** An interface standard for the serial port of a computer or microprocessor-based communication device. Serial ASCII code can be sent via an RS-232 interface.

**Scanning** A technique for making selections on a communication aid, computer, or environmental control system. Scanning involves moving sequentially through a given set of choices, and making a selection when the desired position is reached. Common physical forms for scanning arrays are menus on a computer screen, grids of squares with lights which light sequentially, and dial faces (like clocks) with pointers which revolve to point to symbols. Types of scanning include automatic, manual, row-and-column, and directed. In automatic scanning, the system scans automatically once started, and the user activates a switch momentarily to stop the scanning. Once stopped, the scanning sequence must be recommenced by another switch. In manual scanning, the user activates a switch continuously to scan the choices, releasing the switch to stop. In row-and-column scanning, the user selects first the row in a grid, then the column. Directed scanning involves using multiple switches or a joystick to scan in the desired direction. See also direct selection.

**Semantic compaction** A technique for reducing the number of selections a user must make to generate a message on a voice-output communication aid. Symbols for semantic units are used rather than number or letter codes (see encoding).

**Serial port** One type of interface for communication between a computer or electronic communication aid and another computer, electronic communication aid, or peripheral. The fact that two devices both have a serial port, however, does not automatically mean that information can be transferred between them flawlessly.

**Software** The part of a computer system which is not tangible, that is the programs or information that are processed by a computer or stored in memory. Commercially available software is usually sold in the form of a program or programs stored on a disk. See firmware, hardware, program, disk.

**Speech digitizer** A device which analyzes speech and converts particular sounds or utterances into digital patterns which can be stored just as other data is stored on a computer. These digital patterns can also be reconverted into their original sounds, allowing the computer to act as a digital "tape recorder." Speech digitization is also used in voice recognition systems. See speech synthesizer, voice recognition.

**Speech recognition** See voice recognition.

**Speech synthesizer** In contrast to the speech digitizer, which records and plays back what it "hears," the speech synthesizer receives input in the form of electronic text characters (letters, numbers, punctuation), and converts the discrete characters or words into artificial speech. Most speech synthesizers have a memory and processing system that applies standard pronunciation rules to determine the correct pronunciation. Synthesizers tend to sound more mechanical than digitizers; on the other hand they do not require that each and every phrase to be spoken be recorded beforehand, and they tend to use less memory storage space.

**Spreadsheet** A type of applications program that is designed for adding, editing, and manipulating tabulated information.

**Synthesizer** See speech synthesizer.

**Talking screen program** A program which speaks the contents of the computer's screen via a speech synthesizer. Such a program is usually also equipped with a system that allows the user to "navigate," or find his way around the screen, without the necessity of seeing the screen.

**TDD** Telecommunication Device for the Deaf. A device which allows a person to transmit typed-in messages over phone lines. Most TDDs have a keyboard for sending messages and an electronic display and/or printer for receiving them. In most cases, people on both ends of the line must have a TDD in order to communicate. TDDs transmit a standard code (see Baudot).

**Terminal** A device for entering data on the type of computer system which accepts data from more than one source at a time. The typical terminal has a keyboard for entering data and a screen for reviewing the data entered. A terminal does not process information in itself, but sends it on to the host computer system.

**Toggle** A switching action wherein the switch is turned on with one motion, off with another. Contrasts with momentary contact, wherein a switch remains on or off only while it is being activated by the user, reverting to its "normal" state (either on or off) as soon as it is no longer being activated. A common toggle switch is a wall switch for a light. This action can also be known as latching.

**Touch Pad, Touch Screen** Devices which allow a person to generate input to a computer by pressing on their surface. A touch pad is usually a continuous membrane surface divided into areas, each of which generates a different input (a character, command, etc.). A touch screen fits over the standard computer screen, and functions similar to a touch pad. Touch pads and screens are frequently used to make selections from menus or to create graphics.

**Transparent** Usable with all or an entire major class of software. This term is usually applied to a program or device which is usable with nearly all software appropriate to the computer system for which the program or device is designed. One should never assume that a device or program is absolutely transparent to all software without checking with the manufacturer.

**Voice Recognition** A technique used to recognize certain spoken utterances. A voice recognition system is "trained" to recognize an utterance by digitally encoding it once or several times (see speech digitizer). Thereafter when the system "hears" a phrase spoken, it compares it to the patterns for the utterances it has "heard" before, and matches it to one. All utterances to be recognized must be individually trained, and due to present limits on the technology, the maximum length of a recognized word or phrase is about two seconds. Voice recognition is commonly used in voice input systems for computers, which send a given input to the computer for each recognized utterance.

**Word Processor** A type of applications software that is used to enter, edit, manipulate, and format text. In order to be considered a word processing program rather than a simple text entry and editing program, a program should have fairly sophisticated capabilities.

# **Appendix C**

## **Manufacturers Listed with their Products**

*This appendix includes the name, address, phone and a list of products for every manufacturer in the three-book series. Manufacturers are listed alphabetically. The book-page location for each of the manufacturer's products follows the product name. The appendix provides the necessary contact information about the manufacturers, and also allows you to locate a product description when all you know is the name of a manufacturer.*



## Appendix C: MANUFACTURERS Listed with their Products

- AbleNet**  
Cerebral Palsy Center, Inc., 360 Hoover Street,  
Minneapolis, MN 55413  
(612) 331-3558  
AbleNet Control Unit 1-15  
AbleNet Switch 100 2-5  
Battery Device Adapter 1-17
- ACS Communications**  
250 Technology Circle, Scotts Valley, CA  
95066  
(800) 538-0742  
Dynamate 1200 2-50  
Dynamate 2000 2-50
- ACS Telecom**  
25825 Eshelman Av., Lomita, CA 90717  
(213) 325-3055  
ACS Medicom Computer System 3-23
- Adaptive Communication Systems, Inc.**  
994 Broadhead Road, Suite 202, Coraopolis, PA  
15108  
(412) 264-2288  
AllTalk 1-63  
ControlPAC 2-48  
HX-20 Protective Cover 3-6  
Keyguard 3-8  
Light Pointer 1-11  
PhotoPAC/EvalPAC 1-71  
ScanPAC/Epson 1-74  
SpeechPAC/Epson 1-76  
ToyPAC 1-33  
Trine System (ACS) 1-80
- Adaptive Peripherals, Inc.**  
4529 Bagley Avenue North, Seattle, WA 98103  
(206) 633-2610  
Adaptive Firmware Card 3-24  
Talking Scanner 3-279  
Talking Unicorn 3-280  
Talking Word Board 3-341
- Adaptive Technology, Inc.**  
5334 72nd Circle North, Brooklyn Center, MN  
55429  
(612) 560-0861  
Keylocks 3-12  
Keyshields 3-13
- Advanced Computer Services**  
Frostproof, FL 33843  
(813) 646-6622  
Deafsign 3-210
- AESIR Software Engineering**  
P.O. Box 5363, Pinedale, CA 93650  
No Phone  
AARON 3-307
- AIMS Media**  
6901 Woodley Avenue, Van Nuys, CA 91406  
(800) 367-2467, (818) 785-4111  
Getting Started in Arithmetic Series (and  
Sam's Store) 3-223
- Alpha Software**  
Burlington, MA 01803  
(617) 229-2924  
Keyworks 3-37
- American Communication Corporation**  
1040 Roberts Street, East Hartford, CT 06108  
(203) 289-3491  
Amcom C 1-89
- American Printing House for the Blind  
(APHI)**  
Dept. O0686, P.O. Box 6085, Louisville, KY  
40206  
(502) 895-2405  
Talking Apple Literacy Kit 3-277
- Amidon Publications**  
1966 Benson Ave., St. Paul, MN 55116  
(612) 690-2401  
Computer CUP 3-205
- Ankney, Barry R.**  
Rural Route, Washburn, IL 61570  
(309) 248-7447  
Math Scan 3-241
- Apercom Corporation**  
721 Linda Court, San Mateo, CA 94403  
(415) 572-1464  
LimeLight 3-89
- Arroyo & Associates**  
88-45 79th Avenue, Glendale, NY 11385  
(718) 849-9306  
Delay Timer 1-21  
E-Tran Scanner 1-23  
Poc-Ett System 1-25
- Artic Technologies**  
2234 Star Court, Auburn Heights, MI 48057  
(313) 435-4222  
Artic Vision 3-81  
SynPhonix 100 3-122  
SynPhonix 200 3-123  
Synphonix Jr 3-123
- ARTS Computer Products, Inc.**  
145 Tremont Street, Suite 407, Boston, MA  
02111  
(617) 482-8248  
Expand-a-View 3-86  
PC Lens 3-97  
PC Voice 3-93
- Asahel Engineering, Inc.**  
N.E. 920 California Street, Pullman, WA 99163  
(509) 332-2205  
Asaflex Model TS 2-7
- ASIEP Education Company**  
3216 NE 27th, Portland, OR 97212  
(503) 236-1317  
AIMatar 3-147  
ASIEP Computer Scoring and  
Interpretation 3-149  
PRE-MOD II 3-161
- Aspen Systems Corporation**  
P.O. Box 6018, Gaithersburg, MD 20877  
(800) 638-8437, MD (301) 251-5233  
Language Stimulation Series 3-234
- Assembly Corner**  
P.O. Box 151, Maynard, MA 01754  
(617) 897-7749  
Textalk 3-343
- AT & T**  
2001 Route 46, Parsippany, NJ 07054  
(800) 233-1222  
Directel 2-49  
Electronic Artificial Larynx 1-3  
Handset for Speech Amplification 1-4  
Medical Alert 2-80  
Operator Dialer 2-59  
Raised Face-Plate 2-61
- Audio Tone Company**  
2422 West Holly, Phoenix, AZ 85009  
(602) 254-5863  
Talk Tone 1-97
- Aurex Corporation**  
337 South Franklin Street, Chicago, IL 60606  
(312) 939-0431  
Neovox 1-4
- Baggeboda Press**  
1128 Rhode Island Street, Lawrence, KS 66044  
(913) 842-0490  
PICSYMS Categorical Dictionary 1-51
- Bainum Dunbar, Inc.**  
6427 Hilcrest, Suite 133, Houston, TX 77081  
(713) 988-0887  
Brainz 3-196
- Ballard & Tighe, Inc.**  
480 Atlas Street, Brea, CA 92621  
(800) 321-4332, CA (714) 990-4332  
Basic Vocabulary Builder on  
Computer 3-192  
Elephant Ears 3-213  
IDEA Cat 3-227  
Mouse Math 3-248
- BAUD**  
1158 Steward Avenue, Bethpage, NY 11714  
(516) 433-0171  
Rapsheet 3-333  
Blazing Paddles 3-299
- Bayman, Benjamin**  
3611 Abbott Avenue South, Minneapolis, MN  
55410  
(612) 920-1358  
Large Print Word Processor 3-523
- Baysik Speech**  
P.O. Box 891, Menlo Park, CA 94026  
(415) 854-1772  
SAYIT 3-140
- Beagle Bros., Inc.**  
3990 Old Town Avenue, Suite 102C, San Diego,  
CA 92110  
(619) 296-6400  
MacroWorks 3-14
- Bear Medical Systems, Inc.**  
9340 Narnia Dr., Riverside, CA 92503  
(800) 331-2327  
Jenri-Voice 1-6
- Behavioral Engineering**  
230 Mt. Hermon Road, Scotts Valley, CA  
95066  
(408) 438-5649  
Mind Master 3-39
- Berkeley System Design**  
1708 Shattuck Avenue, Berkeley, CA 94709  
(415) 540-5537  
inLARGE 3-87
- Birch, Jana**  
2346 Wales Drive, Cardiff, CA 92007  
(619) 942-3343  
Catch the Cow 3-173
- Blissymbolics Communication Institute**  
350 Rumsey Road, Toronto, ON M4G 1R8  
CANADA  
(416) 444-6605  
Blissymbol Vocabulary Stamps 1-41



**Borland International**  
4585 Scotts Valley Drive, Scotts Valley, CA 95066  
(408) 438-8400  
SuperKey 3-19

**Brain-Link Software**  
317 Montgomery, Ann Arbor, MI 48103  
(313) 995-0604

Function Recognition 3-223  
Memory Patterns 3-244  
Preposition Recognition 3-257  
Reading Recognition 3-262  
Visual Recognition 3-289  
Word Recognition 3-294

**Brighter Pathways**  
P.O. Box 20101, Billings, MT 59104  
(406) 656-0045

Brighter Pathways Communication Symbols and Grids 1-41

**Brown & Company, Inc.**  
P.O. Box 2443, South Hamilton, MA 01982  
(617) 468-7464

PC-Pedal 3-16

**ButtonCount Software Company**  
10148 Lasso Lane, Shreveport, LA 71106  
(318) 226-7806

ButtonCount Switch Assessment 3-172

**C.C. Publications, Inc.**  
P.O. Box 23699, Tigard, OR 97223  
(800) 547-4800, (503) 692-6880

Assessment of Intelligibility of Dysarthric Speech 3-171  
Basic Language Series-Spatial Concepts 3-192  
Learning Workshop 3-235  
Ollie Series 3-249

**Cacti Computer Services**  
130 9th Street S.W., Portage la Prairie, MB R1N 2N4 CANADA  
(204) 857-8675

Cacti Word Processor 3-311  
Comm-Prog 3-313  
Pressure Sensitive Expanded Keyboard 3-43

**Canon U.S.A., Inc.**  
One Canon Plaza, Lake Success, NY 11042  
(516) 488-6700

Canon Communicator M 1-63  
Handy Terminal 1-67

**Castle Special Computer Services**  
9801 San Gabriel Street N.E., Albuquerque, NM 87111  
(505) 293-8379

Spellist 3-273  
Coinsnkeys 3-202

**Cerebral Palsy Research Foundation of Kansas, Inc.**  
2021 North Old Manor, P.O. Box 8217, Wichita, KA 67208  
(316) 688-1888

Variable Position Scanner 1-34

**Chatterbox Voice Learning Systems**  
29 Elk Ridge Lane, Dept. C, Boulder, CO 80302  
(800) 531-5314, TX (800) 292-5619

Chatterbox Dictionary 3-198  
Voice English Language Development 3-291  
Voice Math 3-291  
Voice Reading Ability Drill 3-292

**CiderWare**  
1019 Martinique, Dallas, TX 75223  
(214) 827-7734, (214) 357-1276  
Lister Talker 3-324

**Cleo, Inc.**  
3957 Mayfield Road, Cleveland, OH (216) 382-9700, (800) 321-0595  
Adjustable Head Pointer 1-9  
Cleo Communication Board 1-42

**Clinical Speech Systems, Inc.**  
673 Pearl Street, Green Bay, WI 54304  
(414) 869-2880  
FingerSpeller 3-217

**Cognitive Rehabilitation**  
6555 Carrollton Avenue, Indianapolis, IN 46220  
(317) 257-9672  
Soft Tools '83, '84, '85 3-267

**College-Hill Press**  
4284 41st Street, San Diego, CA 92105  
(800) 854-2541, CA (800) 223-6057  
Anatomy and Physiology of the Speech and Hearing Mech. 3-189  
Clinical Data Manager 3-151  
Comprehensive Phonemic Inventory for Children, 20 3-174  
Computer Assisted Instruction in Phonological Process 3-204  
Computerized Reading for Aphasics 3-207  
Drills in Language Concepts 3-211  
Frenchay Dysarthria Assessment 3-154  
Talk About A Walk 3-277  
V.A.R.P. Vocal Abuse Reduction Program 3-287  
Word Class Inventory for School Age Children 3-167

**Command Telephone System**  
5600 N. Aotioch Road, Kansas City, MO 64119  
(816) 453-2010  
Command Telephone System 2-47

**Commetrics, LTD**  
P.O. Box 278, St. Lambert, PQ J4P 3N8 CANADA  
(514) 672-4534  
Talking 100 1-78

**Communication Enhancement Clinic**  
Children's Hospital Medical Center, 300 Longwood Avenue, Boston, MA 02115  
(617) 735-6466

Message Maker 3-327  
Scan & Speak 3-264  
Target 3-280  
Touch & Speak 3-344  
Type & Speak 3-345

**Communication Habilitation Service**  
201 Sleepy Hollow Circle, Birmingham, AL 35216  
(205) 967-2050

Software Simulations of Communication Prostheses 3-182

**Communication Skill Builders**  
3130 North Dodge Boulevard, P.O. Box 42050-G, Tucson, AZ 85733  
(602) 323-7500

Articulation Error Analysis 3-148  
Computer Courseware for the Exceptional Student 3-204  
Computer Managed Articulation Diagnosis 3-174  
Computer Managed Articulation Treatment 3-205  
Computer Managed Language Treatment 3-206  
Computer Managed Screening Test 3-175

Idioms in America 3-227  
Pictures, Please! 1-53  
Planing Individualized Speech & Language Intervention 3-160

**Communications Applied Technology**  
11150-14 Roger Bacon Drive, Reston, VA 22090  
(703) 481-0068

R/S II Series Wireless Link 3-75

**CommuniTree Group**  
470 Castro Street, Suite 207-3002, San Francisco, CA 94114  
(415) 441-3088

Communitree - First and Second Editions 3-314

**CompTech Systems Design**  
P.O. Box 516, Hastings, MN 55033  
(612) 437-1350

Finger Print 3-133  
Triple Dump 3-142

**Compu-Tations, Inc.**  
P.O. Box 502, Troy, MI 48099  
(313) 689-5059

Special Skill Builders I & II 3-270

**ComputAbility Corporation**  
A Division of Preston, 101 Route 46 East, Pine Brook, NJ 07058  
(201) 882-0171

Air Cushion Switch 2-5  
Evaluation System 3-176  
EZBAS 3-132  
Hand Switch 2-17  
Handi-Routine 3-135  
Head Switch 2-18  
Interface Box for Apple IIe 3-71  
Keyguard 3-9  
Multiple Switch Box for the Adaptive Firmware Card 3-73  
Paddle Adapple 3-73  
Picture Communication 3-331  
Puff Switch 2-32  
Wobble Switch 2-41  
Word Communication 3-348

**Computer Aids Corporation**  
124 West Washington Court, Lower Arcade, Fort Wayne, IN 46802  
(219) 422-2424

Braille-Talk 3-317  
Calc-Talk 3-312  
File-Talk 3-318  
Screen-Talk Pro 3-96  
Talking Sensible Speller 3-339  
Word-Talk 3-348

**Computer Conversations**  
2350 North 4th Street, Columbus, OH 43202  
(614) 263-4324

Eohanced PC Talking Program 3-85  
VERBal STAR 3-347

**Computer Diskcourse**  
10145 K121 Street, Suite 204, Edmonton, AB T5N 1K5 CANADA  
(403) 488-4763

Lyon Large Print Program 3-89

**Computer Island**  
227 Hampton Green, Staten Island, NY 10312  
(718) 948-2748

Lightpen Programs for Special Education I & II 3-237

**Computer Talk**  
1420 East Cypress Street, Covina, CA 91724  
(818) 331-0413

Quiet Duck Learning Series 3-259

## Appendix C: MANUFACTURERS Listed with their Products

- Computer Users of America**  
5028 Merit Drive, Flint, MI 48506  
(313) 736-3774  
Electronic 31 Day Calendar 3-317  
Personal Money Management 3-330  
Speak-A-Label 3-335  
Speech Writer 3-336  
Tele-Talk 3-342
- Computerized Enabling Systems**  
409 South Whitehall Avenue, Allentown, PA 18104  
(215) 820-4065  
Computerized Enabling System 3-315
- Computers for the Physically Handicapped**  
7602 Talbert Avenue, Suite 5, Huntington Beach, CA 92647  
(714) 848-1122  
TIM 1-79
- Computers to Help People, Inc.**  
1221 W. Johnson Street, Madison, WI 53719  
(608) 257-5917, 257-1270 (TDD)  
Apple DOS 3.3 Manual 3-129  
CHPI Apple Tool Kit 3-312  
Mac-Apple Communication Aid 3-325  
Maze 3-243  
Sentence-Scan 3-334  
Talking Wheelchair 3-340  
Trace Math Aid 3-285  
Write 3-295
- Conover Company, The**  
P.O. Box 155, Omro, WI 54963  
(414) 685-5707  
Computerized Training Systems (CTS):  
Nuts & Bolts 3-207  
Concept Formation: Shape Matching 3-208  
CTS: Electronic Assembly & Soldering 3-210  
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Job Search and Local Job Bank 3-177  
Microcomputer Evaluation of Career Areas (MECA) 3-179  
SAID: Say as I Do 3-263  
STIM-U-LITE 1-28  
Survival Words 3-273  
VOC Matching and VOC Report 3-163
- Control Data Corporation**  
Disability Services, 7600 France Avenue South, Minneapolis, MN 55435  
(612) 853-8100  
JOBS System 3-178  
SAGE System 3-181
- COPH-2**  
2020 Irving Park Road, Chicago, IL 60618  
(312) 866-8195  
Keyguards 3-10
- Courage Center**  
Rehabilitation Engineering, Golden Valley, MN 55422  
(612) 588-0811  
VIC-20 Scanner 3-347
- Covington Group**  
4519 Perry Avenue North, Minneapolis, MN 55422  
(612) 537-4910  
Keyer 3-8
- Covox, Inc.**  
675-D Conger Street, Eugene, OR 97402  
(503) 342-1271  
Voice Master 3-125
- Crabapple Systems**  
118 Commercial Street, Portland, ME 04101  
(207) 772-8610  
Keyboard Emulator 3-35  
SpeechPad 1-77
- CREATE**  
P.O. Box 8896, Green Bay, WI 54308  
CREATE 3-209
- Crestwood Company**  
P.O. Box 04606, Milwaukee, WI 53204  
(414) 461-9876  
Beeper 2-75  
Communiclock 1-19  
Membrane Plate Switch 2-23  
Mini Talking Card Reader 1-70  
Opticomunicator 1-50  
Porta Book 1-54  
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Talking Paddles 1-56  
Talking Pictures Communication Board 1-57  
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Tri-Responder 1-34
- Cross Educational Software**  
P.O. Box 1536, Ruston, LA 71270  
(318) 255-8921  
Peachy Writer Bold 3-330  
Spell-A-Vision 3-271  
Talking Riddles 3-278  
Talking Writer 3-341
- CyberLYNX Computer Products, Inc.**  
4828 Sterling Drive, Boulder, CO 80301  
(303) 444-7733  
Smarthome I 2-63
- Dept. of Physical Medicine & Rehab., U of Michigan**  
1C335 University Hospital, University of Michigan Med Ctr., Ann Arbor, MI 48109  
(313) 936-7170  
ALLKEY 3-24  
EXPAND 3-29
- Design Technology**  
5710 Ruffin Road, San Diego, CA 92123  
(619) 268-8194  
Commodore Light Pen 3-61
- Designing Aids for Disabled Adults**  
1024 Dupont Street, Toronto, ON M6H 2A2  
CANADA  
(416) 533-4494  
PC AID 3-41  
PC Assisted Keyboard 3-16  
PC Serial AID 3-42
- Developmental Equipment**  
981 Winnetka Terrace, Lake Zurich, IL 60047  
(312) 438-3476  
Audio Scan 3-308  
Battery Adapter 1-17  
Blisspen 3-193  
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Core Picture Vocabulary 1-44  
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PIC Man 3-302  
Pictogram Ideogram Communication (PIC) 1-51  
Picture Your Blissymbols 1-52  
Plate Switch 2-28
- Devolve Data Products**  
1500 Martin Av., Box 58051, Santa Clara, CA 95052  
(408) 980-1360  
Electric Copyholders 2-52
- Dickey Engineering**  
3 Angei Road, North Reading, MA 01864  
(617) 657-3460  
Saltus Reader 2-62  
Sponge Nurse Call Switch 2-36
- Didatech Software, LTD**  
3812 William Street, Burnaby, BC V5C 3H9  
CANADA  
(604) 299-4435  
Fay's Word Rally 3-215  
Fay: That Math Woman 3-216  
Fay: The Word Hunter 3-216
- Digital Equipment Corporation**  
Terminals Business Unit, 129 Parker Street, Maynard, MA 01754  
(603) 884-8991  
DECTalk 3-116
- Dimango Products**  
1828 Star-Batt Drive, Rochester, MI 48036  
(313) 853-2121  
On/Off Remote Switch 2-59
- DLM Teaching Resources**  
P.O. Box 4000, One DLM Park, Allen, TX 75002  
(800) 527-4747, TX (800) 442-4711  
Compuscore: For the Scales of Independent Behavior 3-152
- Domowicz, Jeff (for information)**  
Lake Erie Institute of Rehabilitation, 137 W. 2nd Street, Erie, PA 16507  
(814) 453-5602, (800) 223-3505  
Electronic Calendars and Pocket Secretaries 2-78
- Dragon Systems, Inc.**  
55 Chapel Street, Newton, MA 02158  
(617) 965-5200  
DART-5000 3-26  
Voicescribe-1000 3-53  
Voicescribe-20000 3-56
- DU-IT Control Systems Group, Inc.**  
8765 Township Road #513, Shreve, OH 44676  
(216) 567-2906  
Armalot Switch Controller 2-7  
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Dual Tongue Switch 2-14  
Easiscorder 2-51  
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TV Game-2 3-76
- Dunamis, Inc.**  
2856 Buford Highway, Duluth, GA 30136  
(404) 476-4934  
Alphabet with Tom and Andy 3-189  
Bear Jam 3-193  
EZ Pilot for PowerPad 3-214  
Leo's Lectric Paintbrush 3-324

- LogicMaster 3-238**  
**Logo Touch Tools for the PowerPad 3-239**  
**Micro Illustrator 3-328**  
**PowerPad 3-64**  
**PowerPad Programming Kit 3-256**  
**SimpleCom I: Yes/No Communication 3-265**  
**SimpleCom II: Needs/Wants Communication 3-266**
- Duncan-Atwell Computerized Technologies, Inc.**  
 1200 Salem Avenue, Hillside, NJ 07205  
 (201) 355-1690  
**Lenical 3-236**  
**Lenipen PC 3-136**
- Duxbury Systems, Inc.**  
 435 King Street, P.O. Box 1504, Littleton, MA 01460  
 (617) 486-9766  
**Duxbury Braille Translator 3-316**
- Dvorak International**  
 11 Pearl Street, Brandon, VT 05733  
 (802) 247-6020  
**Dvorak Keyboard Modification Programs 3-4**
- Dynacomp, Inc.**  
 1064 Gravel Road, Webster, NY 14580  
 (716) 671-6160  
**Primer 83 3-257**
- E. David & Associates**  
 22 Russett Lane, Storrs, CT 06268  
 (203) 429-1785  
**H1 Handicapped Word Games 3-300**  
**H2 Handicapped Arithmetic Flash Cards 3-224**
- Easter Seal Systems**  
 The National Easter Seal Society, 2023 W. Ogden Avenue, Chicago, IL 60612  
 (312) 243-8400  
**ESS Rehabware 3-153**
- EBSCO Curriculum Materials**  
 P.O. Box 1943, Birmingham, AL 35201  
 (800) 633-8623  
**Talking Hands 3-278**
- Edmark Corporation**  
 P.O. Box 3903, Bellevue, WA 98009  
 (800) 426-0856, WA (206) 746-3900  
**Edmark Reading Program, Level 1 3-212**
- Educational Activities, Inc.**  
 1937 Grand Ave., Baldwin, NY 11510  
 (516) 223-4666  
**Core Reading and Vocabulary Development 3-208**
- Educational Audiology Programs, Inc.**  
 1077 Gilpin Street, Denver, CO 80209  
 (303) 777-0740  
**Natural Language Processing Program 3-249**
- Educational Electronic Techniques, LTD**  
 1888 Wantagh Avenue, Wantagh, NY 11793  
 (800) 433-8872  
**Keyboarding For The Dyslexic 3-230**  
**Keyboarding for the Visually Limited 3-231**  
**Keyboarding with One Hand 3-232**  
**Visual/Perceptual Diagnostic Testing & Training Progs. 3-184**  
**Voice of Help 2-83**
- Educational Software Review**  
 1400 Shattuck Ave, Suite 774, Berkeley, CA 94709  
 (415) 528-2788  
**Magic Music Teacher 3-301**
- Educomp Enterprises**  
 191 North 650 East, Department 120, Bountiful, UT 84010  
 (801) 292-7102  
**World of Counting 3-294**
- Edutek Corporation**  
 415 Cambridge, #4, Palo Alto, CA 94306  
 (415) 325-9965  
**Hand/Eye Coordination Programs 3-225**
- EKEG Electronics Company LTD**  
 P.O. Box 46199, Station G, Vancouver, BC V6R 4G5, CANADA  
 (604) 685-7817  
**Activity Board 1-16**  
**Expanded Computer Keyboards 3-29**  
**Expanded Keyboard for Automatic Telephone 2-53**  
**Expanded Keyboards for Speak N' Spell 1-65**  
**Expanded Keyboards for the Adaptive Firmware Cards 3-30**  
**Expanded Keyboards for the Talking BlissApple 3-31**  
**Lifestyle Personal Communicator Expanded Keyboard 1-91**  
**Radio Remote Control 2-60**  
**Remote Keyboard for the Apple II+ and IIe 3-46**  
**Ten Key Board 3-64**
- Elayo Americas, Inc.**  
 P.O. Box 23927, Ft. Lauderdale, FL 33037  
 (305) 563-9400  
**Magnicomp 3-326**  
**MagniLink 3-90**
- Enable Software Company**  
 2340 Martin Luther King Jr. Way, Suite B, Berkely, CA 94704  
 (415) 540-0389  
**Enable Reader 3-85**  
**Enable Writer 3-28**
- EnterSet, Inc.**  
 410 Townsend Street, San Francisco, CA 94107  
 (415) 543-7644  
**QuickWord 3-45**
- ETI Corporation**  
 1000 Long Boulevard, Suite 5, Lansing, MI 48911  
 (517) 694-9737  
**Switchboard 1-77**
- Exec Software, Inc.**  
 201 Waltham Street, Lexington, MA 02173  
 (617) 862-3170  
**Talking TermExec 3-97**
- Expert Systems Software, Inc.**  
 Suite 316, 2120 Crestmoor Road, Nashville, TN 37215  
 (615) 292-7667  
**Omnibox 3-63**  
**Switchmaster 3-275**  
**Toy Assessor 3-284**  
**Toy Scanner 3-284**
- Extensions for Independence**  
 635-5 North Twin Oaks Valley Road, San Marcos, CA 92069  
 (619) 744-4083  
**Easy File Tray, Desk Organizer 2-51**  
**Easy-Load-A-Diskette 3-131**
- Heyer-Abadie Modular Mouthstick 1-10**  
**Modular Twin Turntable Desk 3-138**  
**Motorized Easel 2-58**  
**Quad-Independence Typewriter-Printer System 1-73**  
**Stick-On Keylocks 3-19**  
**Universal Telephone Adapter 2-69**
- Fashion Able**  
 5 Crescent Avenue, Box S, Rocky Hill, NJ 08553  
 (609) 921-2563  
**Remote Control Sonic Switch 2-62**
- Finally Software**  
 4000 MacArthur Blvd., Newport Beach, CA 92663  
 (714) 854-4434  
**Lo/Te 3-325**  
**Talker 3-338**
- First Broward Development Software Division, 4987 North University Drive, Lauderdale, FL 33321**  
 (305) 748-6506  
**Scanning Conversion Program 3-141**
- First Byte, Inc.**  
 2845 Temple Avenue, Long Beach, CA 90806  
 (213) 595-7006  
**First Shapes 3-218**  
**Kid Talk 3-322**  
**MathTalk 3-242**  
**Smooth Talker 3-120**  
**Speller Bee 3-272**
- Fortress Scientific**  
 61 Miami Street, Buffalo, NY 14204  
 (800) 268-7980  
**Environmental Control System 2-53**
- Fred Sammons, Inc.**  
 Box 32, Brookfield, IL 60513  
 (800) 323-7305  
**Adjustable Head Pointer 1-9**  
**Clear-View Head Pointer 1-10**  
**Communication Sheets 1-44**  
**Fone Holder 2-54**  
**Giant Push Button Telephone Adapter 2-55**  
**Mouthsticks 1-11**
- Functional Resources Enterprises**  
 2734 Trail of the Madrones, Austin, TX 78746  
 (512) 327-1741  
**Functional Skills Screening Inventory 3-176**
- Furalltech Systems, Inc.**  
 P.O. Box 190, Liberty, IA 52358  
 (319) 626-6101  
**Flexcom 1-67**
- Garid, Inc.**  
 9313 Valley View Road, Eden Prairie, MN 55344  
 (612) 941-5464  
**Lifestyle Personal Communicator 1-91**
- Green Software**  
 12 Cornell Street, Portland, ME 04103  
 (207) 797-3643  
**Joywriter 3-322**
- Greentree Group, The**  
 P.O. Box 28, Mohnton, PA 19540  
**Purposeful Patterns, Purposeful Symbols, What Belongs? 3-259**

## Appendix C: MANUFACTURERS Listed with their Products

**Gregg/McGraw-Hill**  
Princeton Road, Hightstown, NJ 08520  
(314) 256-2300

Keyboarding for the Physically  
Handicapped 3-231

**Grimaldi & James**  
C/O Coordinator, Special Ed. Program, 4901 E.  
Carson Street, Long Beach, CA 90808  
(213) 420-4272

Easy Programmer 3-317

**Handicapped Children's Computer  
Cooperative Project**  
c/o Sherwood Center, 7938 Chestnut, Kansas  
City, MO 64132  
(816) 363-4606

Color Find 3-202  
Letter Find 3-236  
Rabbit Scanner 3-260  
Sight Word Spelling 3-265  
The Adventures of Jimmy Jumper -  
Propositions 3-282  
Touch and Match 3-283  
Touch and See 3-283

**Handicapped Children's Technological  
Services, Inc.**  
P.O. Box 7, Foster, RI 02825  
(401) 861-6128

Active Stimulation Programmer 1-16  
Barrel Switch 2-7  
Developmental Lever Control 2-12  
Double Push Panel 2-13  
Grasp Switch 2-16  
Single Push Panel 2-34  
Tilt Switch 2-37  
Timer and Counter 1-31  
Touch Sensitive Joystick Control 2-38

**Hanley Associates**  
1750 West Jarvis Avenue, Chicago, IL 60626  
(312) 262-9531

No-Touch 2-58

**Harding & Harris, Inc.**  
P.O. Box 1599, Orem, UT 84057  
(801) 224-2014

Automated IEP System and Professional  
Goal Banks 3-150  
Hypernasality 3-155  
Sound Search II 3-162

**Hartley Courseware, Inc.**  
P.O. Box 431, Dimondale, MI 48821  
(517) 646-6458

Cognitive Rehabilitation Series 3-199  
Remedial Secondary or Adult Education  
Programs 3-262  
Special Education (Elementary): Paks for  
Special Needs 3-269

**Help Me to Help Myself Communication  
Aids**  
342 Acree Avenue, Brownsburg, IN 46112  
(317) 852-4477

Help Me to Help Myself 1-47

**HFB Enterprises**  
400 Maple Court, Herndon, VA 22070  
(703) 378-1843

Handi-Writer Version 3.51 3-320

**Hoefer, J.J.**  
5200 W. 68, Shawnee Mission, KS 62208  
(913) 262-7440

Pobcat 3-195

**Honeywell Disc Instruments Subsidiary**  
102 East Baker Street, Costa Mesa, CA 92626  
(714) 979-5300, (800) 824-3522

quadLynx Trackball 3-44

**Houghton Mifflin**  
P.O. Box 683, Hanover, NH 03755  
(603) 448-3838

Sound Ideas 3-268

**Hugh MacMillan Medical Centre**  
350 Rumsey Rd., Toronto, ON M4G 1R8  
CANADA  
(416) 425-6220

Accularm 2-73  
Capacitive Touchplate Interface 2-10  
Dual Channel Latching Switch  
Interface 1-22  
Head Control for Wheelchairs 2-17  
Microswitch Joystick 2-24

**IBM Corporation**  
Information Systems Group, 3113 West Beltline  
Highway, Madison, WI 53713  
(608) 273-5200 or 273-5292

Listen to Learn 3-238  
Writing to Read 3-295

**IBM Entry System Division**  
11400 Burnett Road, Austin, TX 78758  
(512) 838-8308

Voice Communications Option 3-53

**Icon Peripherals**  
2901 Independence Avenue South, St. Louis  
Park, MN 55426  
(612) 933-7986

Response Optimizer 3-140

**Imaginar Communication Products**  
P.O. Box 1868, Idyllwild, CA 92349  
(714) 659-5905

Eye-Com Board 1-46  
Touch 'N Talk Communication Board 1-58  
Touch 'N Talk Communication  
Notebook 1-58  
Touch 'N Talk Communication  
Stickers 1-59  
Touch 'N Talk Micros 1-59  
Unipix 1-60

**Innocomp**  
Innovative Computer Applications, 33195  
Wagon Wheel, Solon, OH 44139  
(216) 248-6206

Say-It-All and Say-It-All Super Plus 1-73

**Instructional/Communications  
Technology, Inc.**  
10 Stepar Place, Huntington Station, NY 11746  
(800) 225-5428

Cloze-Plus Program 3-199  
Comprehension Power Program 3-203  
Math Power Program 3-240  
PAVE: Perceptual Accuracy/Visual  
Efficiency Training 3-251  
Processing Power Program 3-258  
Reading Around Words Program 3-261  
Visagraph Eye-Movement Recording  
System 3-183  
Word Memory Programs 3-293

**Interface Systems**  
Portland, OR  
(503) 256-3214

Freedom 1 3-86

**International Marketing Services, Inc.**  
220 Commerce Avenue, Port Richey, FL 33568  
(813) 842-3731

Beamscope II 3-82  
Compu-Lenz 3-84

**Interstate Voice Products**  
1849 W. Sequoia Avenue, Orange, CA 92668  
(714) 937-9010

VocaLink Cellular Module 2-70

**VocaLink CSRB-LC 3-50**  
VocaLink Series 4000 3-51  
VocaLink SYS300 3-51  
VocaLink VRT300 3-52

**Intex Micro Systems Corporation**  
725 South Adams Road, Suite L8, Birmingham,  
MI 48011  
(313) 540-7601

ICOMM 1-68  
Intex-Talker 3-118  
SpeechAid 1-76

**ITT Information Systems**  
2350 Oume Drive, San Jose, CA 95131  
(408) 945-8950

Voice Communications System 3-54

**J. Jordan & Associates**  
1127 Oxford Court, Neenah, WI 54456  
(414) 725-9046

Control Without Keyboards 3-315

**Jones, Matthew**  
P.O. Box 82729, Fairbanks, AK 99708  
No Phone

One Handed Typing 3-250

**Josten's Learning Systems**  
800 E. Business Center Drive, Mt. Prospect, IL  
60056  
(312) 296-0510

Ufonic Voice System 3-124

**K Talker Sales**  
P.O. Box 909, Port Townsend, WA 98368  
(206) 385-7910

K Talker 3-87

**Kalashian, Al**  
3234 South Villa Circle, West Allis, WI 53227  
(414) 327-4051

Speller Teller 1-27

**Kansys, Inc.**  
1016 Ohio Street, Lawrence, KS 66044  
(913) 842-4016

PROVOX 3-95

**Kay Elemetrics Corporation**  
12 Maple Avenue, Pine Brook, NJ 07058  
(201) 227-2000

Visi-Pitch Model 6095 3-288

**Kennedy Memorial Hospital for Children  
Education Dept.**  
30 Warren Street, Brighton, MA 02135  
(617) 254-3800, ext. 189

Kennedy Handi-Math Program 3-229  
Kennedy Switch Key Software 3-136

**Key Tronic**  
P.O. Box 14687, Spokane, WA 99214  
(800) 262-6006, W.A. (509) 928-8000

Key Tronic Plug-Compatible Keyboards 3-7  
Speech Recognition Keyboard 3-48

**Kindermath**  
P.O. Box 712, Devon, PA 19333  
(215) 687-1331

Kindermath II 3-233

**Kinetic Designs, Inc.**  
4113C Bridgeport Way, Tacoma, WA 98466  
(206) 565-6727

Filch 3-4



**Kingware**  
Box 1567, Nome, AK 99762  
(907) 443-5603

Access-Ability 3-23

**Koala Technologies Corporation**  
269 Mount Herman Road, Scotts Valley, CA 95066  
(408) 438-0946

Gibson Light Pen System 3-62  
KoalaPad 3-62

**Krown Research, Inc.**  
6300 Arizona Circle, Los Angeles, CA 94005  
(213) 641-4306 (voice or TTY)

Porta Printer Plus MP20 1-92  
Porta Printer Plus MP20D 1-93  
Porta Printer Plus MP40D 1-93  
Porta View Junior/Model 32 1-94  
Print-A-Call 1-94

**Kurzweil Applied Intelligences**  
411 Waverly Oaks, Waltham, MA 02154  
(617) 893-5151

Kurzweil Voicesystem 3-38

**KY Enterprises/Custom Computer Solutions**  
3039 East 2nd Street, Long Beach, CA 90803  
(213) 433-5244

Apple Adaptor 3-69  
EZRA 2-54  
FingerTip Controller 3-31  
Head Switch 2-18  
Modified Joystick 2-25  
Mouth Operated Controller for Quads 3-41  
Multi-Game Board 3-138  
Tongue Controller 3-49

**Lakeland Products**  
21 Birchwood Drive, Burnsville, MN 55337  
(612) 890-7123

Automatic Page Turner 2-46

**Lambert Software Company**  
P.O. Box 171277, San Diego, CA 92117  
(619) 492-9721

KLS - Cognitive Educational System 3-229

**Language Analysis Lab, Waisman Center**  
1500 Highland Avenue, Madison, WI 53705  
(608) 263-5408

SALT (Systematic Analysis of Language Transcripts) 3-161

**Laureate Learning Systems, Inc.**  
1 Mill Street, Burlington, VT 05401  
(802) 652-4755

Audible Career Explorer 3-172  
Fast Access Scan Talker 3-318  
First Categories 3-218  
First Verbs 3-219  
First Words 3-219  
First Words II 3-220  
Following Directions 3-221  
Learning Left and Right 3-235  
Micro-LADS 3-179  
Speak Up 3-335  
Twenty Categories 3-285

**Learning Tools, Inc.**  
686 Massachusetts Avenue, Cambridge, MA 02139  
(617) 864-8086

Individualized Planning System 3-157

**Life Science Associates**  
1 Fenimore Road, Bayport, NY 11705  
(516) 472-2111

Apple IIe Input Adapter 3-70  
Arithmetic 1, 2, and 3 with Speech 3-191  
Cogrehab Vol. 1 3-200

Cogrehab Vol. 2 3-200  
Cogrehab Vol. 3 3-201  
Cogrehab Vol. 4 3-201  
Keys to Success: Comp. Keybd. Skills for  
Blind Children 3-232  
Repeat Defeat 3-17  
Task Master 3-281

**Lind Electronic Design**  
3857 Louisiana Avenue South, St. Louis Park, MN 55426  
(612) 927-6303

Prairie Power Portable IIC System 3-139

**Linear Electronics**  
2055 Corta del Negal, Carlsbad, CA 92008  
(800) 421-1587

Linear Alert ET-1A 2-80

**LinguSystems**  
716 17th Street, Moline, IL 61265  
(309) 255-8463, IL (800) 851-8237

Teaching Vocabulary LinguDisks 3-281  
Automated IEP System and SCOR Goal Banks 3-150  
HELP LinguDisks 3-225  
WALC LinguDisks 3-292

**Lorin Software**  
335 Brassie Drive, Orlando, FL 32804  
(305) 423-7547

Illustrations 3-321  
Type-Talk 3-286

**Lovejoy Electronics**  
35 Garrison Street, Portland, ME 04102  
(207) 774-9421

Lite Touch 3-38

**Luminaud, Inc.**  
8688 Tyler Boulevard, Mentor, OH 44060  
(216) 255-9082

Clamp-On Bump Switch 2-11  
Cooper Rand Electronic Speech Aid 1-3  
Finger Flex Switch 2-15  
Headband Switch 2-18  
Magnetic Finger Switch 2-22  
Mercury Tilt Switch 2-23  
Pressure Switch 2-32  
Rand Voice Amplifier 1-5  
Voicette 1-6

**Maddak, Inc.**  
Pequanock, NJ 07440  
(201) 694-0500

Adjustable Head Pointer 1-10  
Air Switch Kits 2-6  
Automaddak Page Turner 2-45  
Mouth Held Page Turners 1-11  
Page Turner 2-60  
Plate Switch 2-28  
Puff'N Buzzer Switch 2-81  
Squeeze Type Switches 2-36

**Marble Systems**  
21805 Zumbrota Northeast, Cedar, MN 55011  
(612) 434-3704

Early Learning I 3-211  
Early Learning II 3-212  
Mix 'N Match 3-247

**Maryland Computer Services, Inc.**  
3132 Southeast Jay Street, Stewart, FL 32497  
(305) 288-2080

Automatic Form Writer 3-308  
Braille Translation Software 3-310  
Cramer Modified Perkins Braille 3-105  
PC Reader 3-42  
Ready Reader 3-45  
Romeo Braille 3-109  
V.P. 3-99

**Mayer-Johnson Company**  
P.O. Box AD, Solana Beach, CA 92075  
(619) 481-2489

Communication Binder 1-43  
Communication Folder 1-43  
Individualized Communication Systems 1-48  
Life Experiences Communication Kit 1-48  
Picture Communication Symbols, Book I and Book II 1-52  
Pocket-Sized Communication Book 1-53  
Practice Communication Cards 1-55

**McCuiston, Ronald S.**  
5795 Adelyn Road, Pensacola, FL 32504  
(904) 476-8916

Handi-Keys 3-5

**MCE Inc.**  
157 Kalamazoo Mall, Suite 250, Kalamazoo, MI 49007  
(616) 345-8681

Job Readiness Series 3-228  
Job Survival Series 3-228  
The Lost R - Reasoning 3-282

**MECC (Minnesota Educational Computing Consortium)**  
3490 Lexington Avenue, North, St. Paul, MN 55112  
(612) 481-3500

Blissymbolics: Bliss Drills 3-194  
Blissymbolics: Bliss Library 3-309  
Blissymbolics: Blissboard 3-310  
Blissymbolics: Blissymbol Concepts 3-194  
Counting Critters 3-209  
Guessing and Thinking 3-224  
Paint With Words 3-250  
Special Needs Volume 1 - Spelling 3-269  
Special Needs Volume 2 - Simulations & Drills 3-270

**Med Labs**  
7036 Madera Drive, Goleta, CA 93017  
(805) 968-2486  
E-Z Call 2-77  
PA-1 Portable Alarm 2-81

**Medical Equipment Distributors, Inc.**  
3223 South Loop 289, Suite 150, Lubbock, TX 79423  
(806) 793-8421

Air Switch 2-6  
Button Switch 2-9  
Light Touch Lever Switch 2-22  
MicroDEC II 2-57  
Rocker Switch 2-33

**Merritt Computer Products, Inc.**  
2925 LBJ Freeway, Suite 180, Dallas, TX 75234  
(214) 339-0753

SafeSkin Keyboard Protector 3-18

**Methods & Solutions, Inc.**  
82 Montvale Avenue, Stoneham, MA 02180  
(617) 438-5454

Picture Perfect 3-302  
Race the Clock 3-260

**Micro Connection, Inc.**  
P.O. Box 198, Bedford, MA 07130  
(617) 274-8112  
Hope 3-5

**Micro Engineering**  
955 Camino La Maida, Thousand Oaks, CA 91360  
(805) 492-1003

Micro Braille 3-327

## Appendix C: MANUFACTURERS Listed with their Products

### Micro Video

314 N. First Street, P.O. Box 7357, Ann Arbor, MI 48107  
(313) 996-0626  
Video Voice 3-288

### Micro-Ed

P.O. Box 444-005, Eden Prairie, MN 55344  
(612) 944-8750  
Point and Read 3-254

### Microcomputer Systems for the Handicapped

10418 Armstrong Street, Fairfax, VA 22030  
(703) 352-3611  
Chnice Maker 1 3-198  
Talking Aid 3-338

### Microphonics Technology Corporation

25 37th Street Northeast, Suite B, Auburn, WA 98002  
(800) 325-9206

Pronounce 3-43

### MicroTalk Software

337 S. Peterson Av., Louisville, KY 40206  
(502) 896-1288  
ProTERM 3-94  
ProWORDS 3-332

### Microtech Consulting Company

206 Angie Drive, P.O. Box 521, Cedar Falls, IA 50613  
(319) 277-6648

Micro-Interpreter I (Fingerspeller) 3-245

Micro-Interpreter II (CAV-ASL) 3-246

### Midwest Health Programs, Inc.

P.O. Box 3023, Urbana, IL 61801  
(217) 367-5293

PC-Fingers 3-252

### Morning Star Software, Inc.

P.O. Box 5364, Madison, WI 53705  
(608) 233-5056  
Fact Master 3-215

### Mountain Computer

360 El Pueblo Road, Scotts Valley, CA 95066  
(800) 458-0300, (408) 438-6650  
Supertalker 3-122

### Murray, Fr. Bradley (for information)

19 I Street Northwest, Washington, DC 20001  
(202) 842-1650

CTRL & ALT Key Adaptive Program 3-3

### National Institute for Rehabilitation

Engineering  
97 Decker Road, Butler, NJ 07405  
(201) 838-2500

Large Type 3-323

### National Technical Systems

26525 Golden Valley Road, Saugus, CA 91350  
(213) 568-8750

Sorad Activated Light Switch 2-63

### Nationwide Flashing Signal Systems, Inc.

8120 Fenton Street, Suite LL100, Silver Spring, MD 20910  
(301) 589-6670 TDD, (301) 589-6671

Wireless Alerting Systems 2-84

### NEC America, Inc.

8 Old Sod Farm Road, Melville, NY 11747  
(516) 753-7361

DP-200 Connected Speech Recognizer 3-61  
SAR-10 Voice Plus 3-46

### SR-100 Voice Input Terminal 3-48

### Network Services

1915 Huguenot Road, Richmond, VA 23235  
(804) 379-2253

CAPTAIN: Cognitive Training Series 3-196

### Ohm/Electronics

746 Vermont Street, Palatine, IL 60067  
(312) 359-5500

Scooter Zero Force Game Port 3-141

### Ohtsuki Communication Products, Inc.

1399 Ygnacio Valley Road, Suite 24, Walnut Creek, CA 94598  
(415) 947-3148

Ohtsuki Printer 3-108

### P.O. Vox Medical, Inc.

P.O. Box 6427, Hilton Head Island, SC 29938  
(803) 686-2994

P.O. Vox 1-4

P.O. Vox Companion 1-5

### Pa-Da Enterprises

8785 Martz-Paulin Road, Franklin, OH 45005  
(513) 746-9487

EDACTS Keyboard 3-27

### Palmetto Technologies, Inc.

P.O. Box 498, Duncan, SC 29334  
(803) 576-2886 (voice or TTY)

Echo 2000 1-90

### Parallel Systems, Inc.

P.O. Box 58435, Vancouver, BC V6P 6K2 CANADA  
(604) 261-4106

Keasyboard 3-35

### Parrot Software

P.O. Box 1139, State College, PA 16804  
(814) 237-7282

Aphasia Series 1 through VIII 3-190

Categorical Reasoning I and II 3-197

IEP Writer 3-156

Individual Performance Graph Pak 3-156

Language Intervention Planner 3-158

Minimal Contrast Therapy 3-246

Parrot Easy Language Sample Analysis (PELSA) 3-158

Phonological Process Tutor 3-253

Pictures Programs: I, II and III 3-253

Process Analysis Version 2.0 3-180

### PEAL Software

1725 Promenade, #323, Santa Monica, CA 90401  
(213) 451-0997

Exploratory Play 3-214

Keytalk 3-233

Representational Play 3-263

### Personal Micro Computers, Inc.

275 Santa Ana Ct., Sunnyvale, CA 94086  
(408) 737-8444

Electronic Typing Fingers 3-106

### Personal Touch Corporation

4320 Stevens Creek Blvd., Suite 290, San Jose, CA 95129  
(408) 246-8822

Touch Window 3-65

### Personally Developed Software

P.O. Box 3266, Wallingford, CT 06492  
(800) 426-7279

Morse Code Drills 3-248

PC Morse Code 3-251

### Personics Corporation

2352 Maio Street, Building 2, Concord, MA 01792  
(617) 897-1575

HeadMaster 3-33

### Phonic Ear, Inc.

250 Camino Alto, Mill Valley, CA 94941  
(415) 383-4000

VOIS 130 1-82

VOIS 135 1-83

VOIS 140 1-83

VOIS 150 1-84

### Pitts Corporation

4620 North 650 East, Provo, UT 84604  
(801) 225-6441

Eye-Com 1-45

### PJ Software

12810 NE 135th Street, Kirkland, WA 98034  
No phone

TAG: Talking Animated Graphics 3-276

### Polarware

2600 Kealing Road, Box 311, Geneva, IL 60134  
(800) 323-0884

Graphics Magician Jr. 3-319

Graphics Magician Painter 3-319

### Polytel Computer Products Corporation

1250 Oakmead Parkway, Suite 310, Sunnyvale, CA 94086  
(408) 730-1347

Keyport 300 3-36

Keyport 60 3-36

### Precision Controls, Inc.

P.O. Box 45, Haskell, NJ 07465  
(201) 835-5000

COM 2000 1-89

Door Monitor 2-77

Sound Monitor 2-83

Telephone Ring Indicator 2-66

### Prentke Romich Company

1022 Heyl Road, Wooster, OH 44691  
(216) 262-1984

Air Cushion Switch (Single or Dual) 2-5

Apple Switch Interface 3-70

Arm Slot Control 2-6

Battery Interface 1-18

Brow Wrinkle Switch 2-8

Call Signal 2 2-76

Computer Entry Terminal 3-25

Control 1 2-47

Dual Rocking Lever Switch 2-14

Express 3 1-65

Keyboard Interfaces 3-72

Keyguards 3-11

Light Talker 1-68

Mini Rocking Lever Switch 2-25

Minspeak 1 1-70

P-Switch 2-26

Pneumatic Switch 2-30

PRC Joystick 2-32

Single Rocking Lever Switch 2-35

Television Channel Selector 2-66

Tongue Switch 2-38

Touch Talker 1-80

Training Aid 2 1-33

Versascan 1-35

Viewpoint Optical Indicator 6 1-12

Wireless Data Transmission System 3-77

Wobble Switch 2-41

### Prometheus Software

551 Chesman Street, West Hempstead, NY 11552

(516) 485-5491

Communicator 3-314

**Psychological Software Services, Inc.**  
6555 Carrollton Avenue, Indianapolis, IN 46220  
(317) 257-9672

Firm Grip Joystick Holder 3-133  
Foundations I 3-221  
Foundations II 3-222  
Memory I 3-243  
Memory II 3-244  
Multiport 3-139  
Paddle Panel 3-74  
Problem Solving 3-258  
PSS Joystick Adapter 3-74  
Smart Shaper 3-266  
Visuospatial Skills 3-290

**Quest Electronics**  
510 South Worthington Street, Oconomowoc, WI 53066  
(414) 567-9157

Silent Page System 2-82

**R.D. Clark, Inc.**  
Box 22, Bowling Green, IN 47833  
(812) 986-2178

Nu-View-Cue 1-49

**R.J. Cooper & Associates**  
2144 South 1100 East, Suite 150, Salt Lake City, UT 84106  
(801) 263-1388

CASPT 3-197  
CompuDesk HCP 3-129  
Picture Scanner - Software for Assessment 3-180  
Point to Pictures Development Kit 3-255  
Point to Pictures Discrimination Kit 3-255  
Point to Pictures Lesson Plan Masters 3-256

**R/M Systems**  
22903 Fern Avenue, Torrance, CA 90505  
(213) 534-1880

Computadpter 3-25

**Raised Dot Computing**  
408 S. Baldwin, Madison, WI 53703  
(608) 257-9595

BEX 3-309  
Braille Trainer 3-195  
Hot Dots 3-320  
Super Cranmer Graphics Package 3-336

**RC Systems, Inc.**  
121 West Winesap Road, Bothell, WA 98012  
(206) 672-6909

SCAT (Screen Articulator) 3-95  
Slotbuster 3-120

**Regensis**  
810 West Broadway, Vancouver, BC V5Z 4C5 CANADA  
(604) 929-2414, (604) 228-4711

Puffix Morse Code Entry System 3-44

**Rehab Technology, Inc.**  
Box 185, Aviston, IL 62216  
(618) 654-1687

Morser 3-328

**Rehabilitation Institute of Chicago**  
Alan J. Brown Center, 345 East Superior Street, Chicago, IL 60611  
(312) 908-2556

RIC Easy Talker 3-333

**Rhannon Software**  
3717 Titan Drive, Richmond, VA 23225  
(804) 272-7770

Sarah and Her Friends 3-264

**RoseSoft, Inc.**  
4710 University Way N.E., Suite 601, Seattle, WA 98105  
(206) 524-2350

ProKey 3-17

**Rushakoff, G.E.**  
Clinical Microcomputer Laboratory, Box 3W, Department of Speech, New Mexico State University, Las Cruces, NM 88003  
(505) 646-2801

Florida Scanner 3-134  
Single Switch Assessment Program 3-181  
Single Switch Game Library 3-303  
Talk II 3-337

**SABRE Computers International, LTD**  
514 Craig Lane, Villanova, PA 19085  
(215) 525-4374

Brailink III 3-83

**Sbordone, Robert, PhD**  
Orange County Neuropsychological Group, 8840 Warner Avenue, Fountain Valley, CA 92708  
(714) 841-6293

Computer Progs. for Neuropsychological Testing & Rehab. 3-206

**Schaefer, James S.**  
24 Ashford Road, Jackson, NJ 08527  
(201) 364-3095

Basic Interpreter for the Blind 3-82

**Schneider Communication Unit**  
Cerebral Palsy Center, 1603 Court Street, Syracuse, NY 13208  
(315) 455-7591

Appliance Genie 3-307  
Magic Cymbals 3-326  
Quick Talk 3-332  
Say It 3-334  
Sound Match 3-268  
Type N' Parrot 3-286

**Scholastic Software**  
730 Broadway, Department JS, New York, NY 10003  
(800) 325-6149, or (212) 505-3537

Talking Text Writer 3-279

**Scott Instruments**  
1111 Willow Drive, Denton, TX 76201  
(817) 387-9514

Coretechs VET3 3-26

**SEI (Sliwa Enterprises, Inc.)**  
P.O. Box 1052, Yorktown, VA 23692  
(804) 898-8386

Master Talker 3-137

**Sensory Aids Corporation**  
205 West Grand Avenue, Suite 205, Bensenville, IL 60106  
(312) 766-3935

Keynote 3-88  
Viewscan Text System 3-100

**Sensory Aids Foundation**  
399 Sherman Avenue, Suite 12, Palo Alto, CA 94306  
(415) 329-0430

Software for Visually Impaired Children 3-267

**Sentient Systems Technology, Inc.**  
5001 Baum Boulevard, Pittsburgh, PA 15213  
(412) 682-0144

EyeTyper 1-66  
EyeTyper Model 200 1-66

**Shea Products, Inc.**  
1042 West Hamlin Road, Rochester, MI 48063  
(313) 656-2281

Special Friend Speech Prosthesis 1-75

**Siemens Hearing Instruments, Inc.**  
685 Liberty Avenue, Union, NJ 07083  
(800) 631-7965

Servox 1-5

**Soft Cole**  
1804 Mississippi, Lawrence, KS 66044  
(913) 842-6085

I Can Talk 3-226

**SOFT-X**  
6504 West Girard Avenue, Milwaukee, WI 53210  
(414) 445-5925

TRAX PAX Talking Checkbook 3-344  
TRAX PAX Talking File Box 3-345

**SoftCap Company**  
P.O. Box 7113, Rochester, MN 55903  
(507) 288-6729

Timothy Communications Package 1-79

**Software Development & Distribution Center**  
University of Wisconsin - Madison, 1025 West Johnson, Madison, WI 53706  
(608) 263-9864

PEPPER 3-159

**Software Research Corporation**  
3939 Quadra St., Victoria, BC V8X 1J5  
(604) 727-3744

Micro Speech Lab 3-245  
Visible Speech Aid 3-289

**Software Research Technologies**  
2130 South Vermont Ave., Los Angeles, CA 90007  
(213) 737-7663

Smartkey 3-18

**Solutions By Example**  
P.O. Box 1532, Westford, MA 01886  
(617) 692-8570

PC Speak 3-92

**Sonoma State Hospital/Development Center**  
Communication Engineering, P.O. Box 1493, Eldridge, CA 95431  
(707) 938-6306

SonomaVoice 1-27

**Southern Micro Systems**  
716 East Davis Street, Burlington, NC 27215  
(800) 334-5521

Ability-Achievement Discrepancy 3-147  
Articulation Error Analysis (AEA) 3-148  
CARA 3-173  
Stanford-Binet Computer Report (SB-CR) 3-162  
WAIS-Riter 'BASIC' 3-164  
WISC-Riter 'BASIC' 3-166  
WISC-Riter Complete 3-166

**Special Learning Ed Software (SLED)**  
P.O. Box 16322, Minneapolis, MN 55416  
(612) 926-5820

Complete Spelling Program 3-203

**Specialized Systems, Inc.**  
6060 Corte del Cedro, Carlsbad, CA 92008  
(619) 438-8800

SSI-100 Communicator 1-95  
SSI-220 Communicator 1-95

## Appendix C: MANUFACTURERS Listed with their Products

SSI-240 Communicator 1-96

### Specialsoft

P.O. Box 1983, Santa Monica, CA 90406  
(800) 421-6534

Fingerspeller 3-277

Language L.A.B. 3-234

### Speech Enterprises

10622 Fairlane Drive, Houston, TX 77024  
(713) 461-1666

Audic Braille Game Tutorial 3-191

Classy Letterheads - Speak! 3-313

E-Z Pilot II Authoring System and  
Training Package 3-316

Echo Enhancement Box 3-131

Echo/Cricket Training Disk 3-132

Fliptrack Learning Tape Tutorials 3-134

Fun With Math 3-222

Illustrations 3-321

LittleJack 3-137

MultiScribe 3-329

Spelling Tutor 3-272

Study Buddy 3-273

Talking Transcend II 3-340

Tall Talk Prints 3-97

Tall Talk Screens 3-98

Tally-Talk 3-342

Textwriter 2.0 3-343

Ultimate Banker 3-346

Ultimate File Cabinet 3-346

### Speech Plus, Inc.

461 North Bernardo Avenue, Mountain View,  
CA 94043  
(415) 964-7023

CallText 5000 3-115

CallText 5050 3-115

### Speech Products, Inc.

32 Union Square E., New York, NY 10003  
(212) 777-2350

Butler-in-a-Box 2-46

### Speech Systems: Illinois

715 West Main Street, Batavia, IL 60510  
(312) 879-6880

Ears 3-27

Super Voice 3-121

### SpeechMaster

64 F. 6400 South, Suite 235, Salt Lake City, UT  
84107  
(801) 266-3356

SpeechMaster 3-271

### Sphere Technologies, Inc.

22 Richmond Street, Providence, RI 02903  
(401) 861-9400

VS1000 Voice Communications Device 3-65

### Spin-A-Test Publishing Company

3177 Hogarth Drive, Dept. CTG, Sacramento,  
CA 95827  
(916) 369-2032

Game Power for Phonics, Plus 3-177

### SRI Distribution, Inc.

2691 Dow Avenue, Suite F, Tustin, CA 92680  
(714) 544-9941

Voice Systems Package 3-55

### Steven E. Kanor, Ph.D., Inc.

8 Main Street, Hastings-on-Hudson, NY 10706  
(914) 478-0960

Apple Computer Input Adapter 3-69

Button Switch 2-9

Clock Communicator 1-18

Compartmentalized Communicator 1-20

Computer Keyboard Switch 2-11

Computer Plate Switch 2-11

Counter Module 1-20

Environmental Control 2-52

Flat Air Cushion Switch 2-16

Grip Switch 2-17

Joystick 2-19

Keyboard Covers 3-7

Leaf Switch 2-20

Lighted Extra Loud Signalling Buzzer 2-79

Lighted Signalling Buzzer 2-79

Lighted Vibrating Signalling Buzzer 1-23

Perceptual Motor Trainer 1-24

Photo Call Switch 2-27

Pinch Switch 2-28

Plate Switch 2-29

Plate Switch On Stand 2-30

Push-On-Push-Off Module 1-25

Rocking Plate Switch 2-34

Sequential Scanner 1-26

Signal Buzzer 2-82

Sip & Puff Switch 2-35

Small Clock Communicator 1-26

Tilt Switch 2-37

Timer Module 1-31

Vertical Plate Switch 2-40

Vibrating Sack 1-35

Voice Activated Switch 2-40

Wobble Switch 2-41

### Strawberry Hill Knowledge Software, Inc.

202-11961-88th Avenue, Delta, BC V4C 3C9  
CANADA  
(604) 594-5947

Surrounding Patterns (and other  
programs) 3-274

### Street Electronics Corporation

1140 Mark Avenue, Carpinteria, CA 93013  
(805) 684-4593

Cricket 3-116

Echo + 3-117

Echo GP 3-117

Echo PC2 3-118

Textalker Blind and Other Echo  
Utilities 3-98

### Sunburst Communications

39 Washington Avenue, Pleasantville, NY  
10570  
(914) 769-5030

Magic Slate 3-239

Muppet Learning Keys 3-63

### Sunset Software

11750 Sunset Boulevard, Suite 414, Los Angeles,  
CA 90049  
(213) 476-0245

Holidays 3-226

Keyboarder 3-230

Picapad 3-160

Understanding Questions, Sentences I & II,  
Stories 3-287

Visual/Reading Drill 3-290

### Sweet Micro Systems

50 Freeway Drive, Cranston, RI 02920  
(800) 341-8001

Mockingboard 3-119

### Syn-Talk Systems and Services

70 Estero Avenue, San Francisco, CA 94127  
(415) 334-0586

Prompt-Writer 3-331

### T.H.E. Instrumentation & Publishing

Company  
P.O. Box 271751, Carrollwood Station, Tampa,  
FL 33688

(813) 821-5746, (813) 962-7419

PIC Word Board 1-50

Talk Board 1-56

Word Board 1-60

### TASH, Inc.

70 Gibson Drive, Unit 1, Markham, ON L3R  
2Z3 CANADA  
(416) 475-2212

Ability Switch Tester 1-15

Automatic Message Dialer 2-45

Button Switch 2-9

Call Bell 2-76

Cap Switch 2-10

Chin Switch 2-10

Com Board 1-19

Cup Switch 2-12

Cylindrical Touch Switch 2-12

Disk Guide 3-130

Dual Switch Latch and Timer 1-22

Dual Touch Pad Switch 2-15

Elementary MOD Keyboard System 3-28

Flex Switch 2-16

Game Paddle for Apple II Computers 3-32

Governor 3-135

Intercom Unicontrol 2-78

Joystick with Pad Switch 2-19

Keyboard Interface for Apple IIe 3-71

Keyguards 3-11

Keylocks 3-13

Keyscan II 3-72

King Keyboard 3-37

Leaf Switch 2-20

Lever Switch 2-21

Micro Joystick with Push Switch 2-23

Mini Cup Switch 2-24

Mini Joystick with Pneumatic Switch 2-24

Mini Joystick with Push Switch 2-25

Mini Keyboard 3-39

MOD Keyboard System 3-40

Penta Switch 2-27

Pillow Switch 2-27

Plate Switch 2-29

Platform Switch 2-30

Pneumatic Switch 2-31

Radio Unicontrol 2-61

Rocker Switch 2-33

Round Pad Switch 2-34

Soft Switch 2-35

Square Pad Switch 2-36

Switch Adapter for Apple IIe and II+

Computers 3-75

Switch Latch 1-29

Talking 100 Communicator 1-78

Tape Recorder Aid 2-64

Tape Recorder with Switch Adapter 2-64

Telephone On/Off Latch 2-65

Tip Switch 2-38

TOSC-2 Environmental Control

System 2-67

Toy Cable 1-32

Treadle Switch 2-39

TV Converter 2-68

Ultra 4 Remote System 2-68

Unidialer 2-69

Voice Mate II 1-36

Wafer Switch 2-40

### Telaugraph Corporation

8700 Bellanca Avenue, Los Angeles, CA 90045  
(213) 641-3690

Telewriter 1-98

### Telesensory Systems, Inc.

455 North Bernardo Avenue, P.O. Box 7455,  
Mountain View, CA 94039  
(415) 960-0920

EraT 3-84

Optacon 3-91

PC Vert 3-92

Soft Vert 3-96

TeleBraille 1-97

Vantage 3-99

VersaBraille 3-111

VersaPoint Braille Embosser 3-111

Vert Plus 3-100

Vista 3-101

### Terpenning, Joseph L.

25 Rose Hill Park, Cornwall, NY 12518  
(914) 534-3339

Edufun 3-213



**Texas Instruments, Inc.**  
Attention: Parts, P.O. Box 53, Lubbock, TX 79408  
(800) 842-2737

TI-Speech 3-49  
Vocalid 1-82

**Textprint**  
220 Reservoir Street, Needham Heights, MA 02194  
(617) 449-5808

Print-it 3-94

**TIGER Communication System, Inc.**  
155 E. Broad St., No. 325, Rochester, NY 14604  
(716) 454-5134

TIGERbook 1-30

**Titania Publications**  
P.O. Box 2352, Eugene, OR 97402  
(503) 342-3030

Creativity Tool Box 3-299  
Dot & Draw 3-300  
Super Shape Draw & Animate 3-337

**Totoc Company, LTD**  
19151 Parthenia Street, Northridge, CA 91324  
(703) 486-2724

Words-to-Voice 3-101

**Touch Turner**  
443 View Ridge Dr., Everett, WA 98203  
(206) 252-1541

Touch Turner 2-67

**Trace Center**  
S-151 Waisman Center, 1500 Highland Avenue, Madison, WI 53705  
(608) 262-6966

One Finger 3-15  
Talking BlissApple 3-339

**Triformation Systems, Inc.**  
3102 S.E. Jay Street, Stuart, FL 33497  
(305) 283-4817

AudiBraille Computer 3-81  
Microbrailier 2400 3-107  
PC-Braille 3-93  
Personal Brailier 3-109  
TED-600 Text Embossing Device 3-111  
TRI-170 Braille Terminal Emulator 3-110

**Tronix Publishing, Inc.**  
8295 South La Cienega Boulevard, Inglewood, CA 90301  
(213) 215-0529

Software Automatic Mouth (SAM) 3-121

**Typewriting Institute for the Handicapped**  
3102 W. Augusta Avenue, Phoenix, AZ 85021  
(602) 939-5344

Dvorak Keyboard Converter 3-3  
Dvorak One-Hand Typewriter 1-64  
Typewriters for the Visually Impaired 1-81

**Ultratec, Inc.**  
6442 Normandy Lane, Madison, WI 53719  
(608) 273-0707

Intele-Type 1-90  
Minicom 11 1-92  
Superprint 100, 200, 400 1-96  
Watchman 2-84

**Unicorn Engineering Company**  
6201 Harwood Avenue, Oakland, CA 94618  
(415) 428-1626

Unicorn Expanded Keyboard 3-50

**UNITED Educational Services, Inc.**  
P.O. Box 605, East Aurora, NY 14052  
(800) 458-7900, NY (716) 652-9131

Articulator: Goals and Objectives for Speech 3-149  
Child Placement Report Writer 3-151  
Explorer 3-154  
IEP Manager, Revised 3-155  
J-Wear Objective Mastery Report 3-157  
PIAT Error Analysis Report 3-159  
PII - Personalized Information for Independence 3-254  
Rate Drill in Articulation, Language and Fluency 3-261  
UNISTAR Pre-IEP Report 3-163  
Wechsler Adult Intelligence Scale-Revised (WAIS-R) 3-164  
WISC-R Compilation: What To Do Now 3-165  
WISC-R Computer Report (WISC-RCR) 3-165  
Woodcock Reading Mastery Tests Error Analysis Report 3-167

**Universe Electric Research Company**  
510 Florence Ave., St. Louis, MO 63119  
(314) 961-7253

Lip-Reader Trainer 3-237

**Valpar International**  
381 East 34th Street, Tucson, AZ 85713  
(602) 790-7145, (602) 293-1510

MESA 3-178

**Variety Village Electrolimb Production Centre**  
3701 Danforth Avenue, Scarborough (Toronto), ON M1N 2G2 CANADA  
(416) 698-1415

Prism Communication Tray 1-55

**Versa Computing, Inc.**  
3541 Old Conejo Road, Newburg Park, CA 91303  
(805) 498-1956

E-Z Port Plug 3-130

**Versatron Corporation**  
103 Plaza Street, Heraldshurg, CA 95488  
(800) 443-1550

Footmouse 3-32

**Voice Connection**  
17835 Skypark Circle, Suite C, Irvine, CA 92714  
(714) 261-2366

IntroVoice I & II 3-33  
IntroVoice III 3-34  
IntroVoice V 3-34

**Voice Recognition Systems**  
550 Battery Street, Suite 1716, San Francisco, CA 94111  
(415) 788-2007

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**VORT Corporation**  
P.O. Box 60132, Palo Alto, CA 94306  
(415) 322-8282

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**Votan**  
4487 Technology Drive, Fremont, CA 94538  
(415) 490-7600

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**Votrax International, Inc.**  
1394 Rankin Drive, Troy, MI 48083  
(800) 521-1350

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Votalker C-64 3-126  
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**VTEK**  
1625 Olympic Boulevard, Santa Monica, CA 90404  
(213) 452-5966, (800) 345-2256

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**Walker Equipment Corporation**  
P.O. Box 829, Highway 151 South, Ringgold, GA 30736  
(800) 426-3738

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**Washington Research Foundation**  
Suite 322, U-District Building, 1107 N.E. 45th Street, Seattle, WA 98105  
(206) 633-3569

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**Wayne County Intermediate School District**  
Attention: Greg Turner, 33500 Van Born Road, Wayne, MI 48184  
(313) 467-1415

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WOLF 1-84

**Ways & Means**  
28001 Citrin Dr., Romulus, MI 48174  
(313) 946-5030

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**Western Center for Microcomputers in Special Education**  
1259 El Camino Real, Suite 275, Menlo Park, CA 94025  
(415) 326-6997

Western Center Echo + Synthesizer Package 3-143

**Woodsmith Software**  
Route 3, Box 550 A, Nashville, TN 37248  
(612) 988-2137

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**Words+, Inc.**  
1125 Stewart Court, Suite D, Sunnyvale, CA 94086  
(408) 730-9588

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### X-10 (USA), Inc.

185A LeGrand Ave., Northvale, NJ 07647  
(201) 784-9700

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### Xpert Software

8865 Pollard Avenue, San Diego, CA 92123  
(619) 268-0112

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### Zygo Industries, Inc.

P.O. Box 1008, Portland, OR 97207  
(503) 297-1724

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## Alphabetical Listing of all Products

*This appendix contains an alphabetical listing of every product in the three-book series. The name of the manufacturer and book-page location follow each entry. If you know the name of a product, this provides a quick way to find out if it is in the books.*

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